Accounting Software • Add-in Boards - Memory, Graphics, Accelerator • Add-On Software • Artificial Intelligence • Cabling Systems • CAD/CAM • CD ROM Databases •Communications Controllers • Connectivity Software • Database Management Systems • Desktop Computers • Dekstop Publishing • Disk Backup/Tape Drive • DOS-Macintosh Interface Products • Electronic Mail • Emulators/Terminals • Graphics Software • Hard Disks • Input Devices • Integrated Software • Intersystem/Intervendor Links • LAN Applications • LAN Operating Systems • Languages/Programming Tools • Local Area Networks • Maintenance/Leasing • Micro-to-Mini/Mainframe Links • Modems • Monitors • Multi-user Systems • Multi-user Software • On-Line Databases • Operating Systems/Environments • Optical Storage • PBX/Multiplexors • PC Accessories • Peripheral Sharing • Plotters/Graphic Output Devices • Portable/Lap Top Computers • Printers • Project Management Software • Power Protection/Supresors • Scanners • Security • Statistical/Analysis Software • Storage Media • 3270/SNA Hardware/Software • Training Software/Services • Utilities • Vertical Market Applic ns • Voice/Data Systems • Voice Synthesis/Processing • Wid Area C tivity d Processing • Accounting Software • Add-in Boards - lem ry , Acce erator • Add-On Software • Artificial Intelligence • C bling AD/ AM • CD ROM Databases •Communications Cont ollers ctivi y Software • Database Management Systems • es rs Dekstop Publishing • Disk Backup/Tape Drive • DOS-M Products • Electronic Mail • Emulators/Terminals • rap ard Disks • Input Devices • Integrated Software • ters Lin LAN Applications • LAN Operating Systems • L gu ge oo • Local Area Networks • Maintenance/Leasing • Mic o-t ame Li • Modems • Monitors • Multi-user Systems • atabases • Operating Systems/Environments • Optical Sto PBX/Multiplexors • PC Accessories • Peripheral Sharing • Plotters/Graph Output Devices • Portable/Lap Top Computers • Printers • Project Management Software • Power Protection/Supresors • Scanners • Security • Statistical/Analysis Software • Stora ices • Utilities • • Voice Accounting Accelerator •

1987 Index

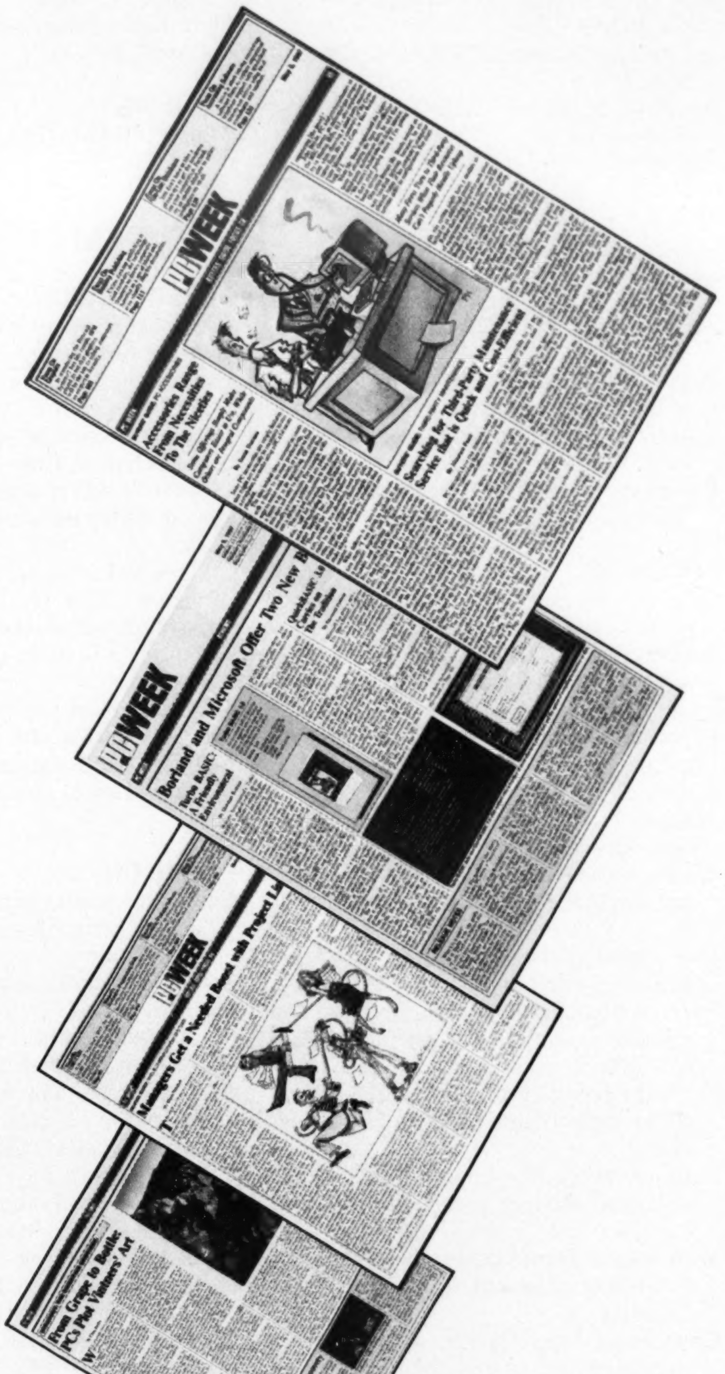
A Complete Listing of PC Week Buyers' Guides, Focus Ons, Special Supplements, Reviews and Strategies

Add-On Software • Artificial Intelligence • Cabling Systems • CAD/CAM • CD ROM Databases •Communications Controllers • Connectivity Software • Database Management Systems • Desktop Computers • Dekstop Publishing • Disk Backup/Tape Drive • DOS-Macintosh Interface Products • Electronic Mail • Emulators/Terminals • Graphics Software • Hard Disks • Input Devices • Integrated Software • Intersystem/Intervendor Links • LAN Applications • LAN Operating Systems • Languages/Programming Tools • Local Area Networks • Maintenance/Leasing • Micro-to-Mini/Mainframe Links • Modems • Monitors • Multi-user Systems • Multi-user Software • On-Line Databases • Operating Systems/Environments • Optica Multiplexors • PC Accessories •

PC WEEK

Supplement to PC Week
January 26, 1988

Volume 5
Number 4



The first part of this special supplement provides indexing to all articles that appeared in PC Week's 1987 Buyers' Guides, Focus Ons or Supplements, as well as to all 1987 product reviews. The citations to these articles are arranged alphabetically by product category. Note that every Buyers' Guide includes both a directory of manufacturers and a chart providing comparative information about individual products.

Following this section of the index is a listing of PC Week's corporate-strategy articles, each of which profiled an individual company, institution or government agency. The first part of this listing, beginning on Page S/22, includes strategies that appeared in the Connectivity section of PC Week; the second part, found on Page S/30, includes strategies that appeared in PC Week's Features section. Citations to strategy articles are arranged alphabetically by the company, organization or agency profiled.

Throughout this index, page references prefaced "C/" can be found within PC Week's Connectivity section. Pages prefaced "S/" can be located within a separately bound Supplement section. ■

Index to Buyers' Guides, Focus Ons, Reviews and Strategies

Accounting/Financial Software

BUYERS' GUIDE

Money-managing programs help out at small businesses; organizing funds is made easier with financial planners designed for non-corporate environments. *Page 81, April 7.*

Power, speed, support are highly prized by users of financial-planning packages; flexibility, as key component, means different things to different people. *Page 81, April 7.*

Modular packages stay up-to-date as firms grow. *Page 65, Sept. 22.*

FOCUS ON

Digital tax plan: Sound in theory, chaotic in practice. *Page 111, Jan. 27.*

The taxman goes high-tech as IRS accepts electronically filed returns. *Page 111, Jan. 27.*

Following IRS's lead, states have begun to look at electronic tax filing. *Page 112, Jan. 27.*

Volatile PC environment causes security woes. *Page 100,* March 10.

Evaluate audit system of accounting software for security purposes. *Page 102, March 10.*

Software support shifts from developer to dealer. *Page 133, May 5.*

Some developers will continue support for accounting software. *Page 133, May 5.*

Support is key in accounting software choice. *Page 138, May 5.*

Financial databases offer independent research, stock recommendations. *Page 107, July 7.*

Investors discipline complex Wall Street world with PCs. *Page 107, July 7.*

Artificial intelligence: Can it fulfill the needs of the accounting world? *Page 129, Aug. 25.*

Houston-area PC users group offers continuing education for accountants. *Page 129, Aug. 25.*

Impact of AI will be felt in particular areas. *Page 135, Aug. 25.*

Artificial intelligence-based systems target complexities of tax accounting. *Page 135, Aug. 25.*

A lack of time hinders finance planners' quest for necessary PC knowledge. *Page 153, Oct. 13.*

Modular approach often better than integrated packages for financial plans. *Page 153, Oct. 13.*

On-line quotation services help finance planners follow daily trend. *Page 154, Oct. 13.*

Competition heats up for financial planners. *Page 155, Oct. 13.*

Finance planners should avoid industry-specific software's built-in bias. *Page 156, Oct. 13.*

Tax reform act brings Christmas cheer to software developers. *Page 108, Dec. 15.*

Executive information systems turning to PCs. *Page 109, Dec. 15.*

REVIEWS

Dac-Easy Accounting—Dac Software. *Page 73, June 30.*

The Accounting Tools—Spectrum Software. *Page 85, Aug. 18.*

The Forecast Pro—Business Forecast Systems. *Page 83, Sept. 1.*

NewViews—Q.W. Page Associates. *Page 97, Oct. 20.*

Microsoft Excel, Version 2.0—Microsoft. *Page 113, Dec. 8.*

Millionaire II—Blue Chip Software. *Page 75, Dec. 15.*

Accelerator Boards

BUYERS' GUIDE

Cost, speed advantage are boards' potent lures; translator, accelerator '386 boards

(Continued on Page S/4)

1987 Index

(Continued from Page S/3)

offer variety of choices to upgrade machine performance. *Page 59, March 31.*
Experts say Intel will keep '386 chip in plentiful supply. *Page 60, March 31.*

FOCUS ON
Turbo cards hold their own among '386 PCs. *Page 91, Jan. 13.*
Turbo boards: Trying to get the right image. *Page 96, Jan. 13.*

Prepare Today For Tomorrow

Palantir is bringing the power to Microsoft Windows with easy-to-use and easy-to-learn, Windows applications that share text and graphics. Now you can work more efficiently as you click from one Palantir application to another.

- ***WinCalc*** calculates the largest spreadsheets with ease.
- ***WinTime*** manages appointments for your entire staff. Find the next available time for a meeting of thirty people in just seconds.
- ***WinLook*** stores images in a database. Sort and search by title, key words, or both. A great organizer for desktop publishing.
- ***WinFile*** creates databases and reports for all sorts of information. The perfect office tool for phone lists, sales orders, or most anything else.
- ***inTalk*** connects your PC to the world. Communicate with the company mainframe, microcomputers, other PC's, information services, and E-mail.
- ***WinGraph*** creates exciting business graphics for screen or printed presentation. Graph type, color, size, scale, grids, etc. are all easily selected from drop-down menus. ***WinShow*** is included for organizing graphs into a "slide show."

There's more! ***Windows Filer, Windows Spell, NetTime*** and more to come. No one has more applications for Windows than Palantir! Let Palantir take your office into the future with Windows Office Automation. For more information, contact your dealer.

PALANTIR®
12777 JONES ROAD, SUITE 100,
HOUSTON, TEXAS 77070
(713) 955-8880

Either way, Turbo cards add zip to chips. *Page 101, Jan. 13.*
Once the switch is made, most users report satisfaction with replacements. *Page 147, April 21.*
Replacement boards seen as both boon, bother. *Page 147, April 21.*
OEMs, resellers do most business in replacements. *Page 151, April 21.*
Board makers waiting for the OS/2 to drop. *Page 152, April 21.*
Adding '386 capability to PC requires choice. *Page 153, April 21.*
'386 system board has power of deskpro 386, according to company. *Page 153, April, 21.*

REVIEWS
286 RAMRacer—PC Technologies. *Page 91, Feb. 17.*
The AMI-386 Motherboard—American Megatrends. *Page 73, March 17.*
Intel ISPC 386/AT—Intel. *Page 73, March 17.*
Inboard 386/AT—Intel. *Page 119, April 21.*
Jet 386—Orchid Technology. *Page 119, April 21.*
PC-elevator 386—Applied Reasoning. *Page 87, Aug. 18.*
Hummingboard—Gold Hill. *Page 90, Aug. 25.*
The Micronic 386 Motherboard—Micronics Computer. *Page 85, Sept. 1.*
The Fortron 386 Motherboard—Fortron. *Page 85, Sept. 1.*
Mac286—AST Research. *Page 127, Nov. 10.*

Add-In Boards

BUYERS' GUIDE
Waiting game for full-blown DOS continues; board market adjusting to chip availability and impact of announcements expected from IBM. *Page 59, March 31.*

FOCUS ON
Consultants caution users to beware of gaps in quality of boards. *Page 150, April 21.*
Board market emerges for add-in memory, communication for PS/2. *Page 113, Sept. 1.*
IBM's PS/2 computers opening up possibilities in add-in boards market. *Page 113, Sept. 1.*
Technical hurdles mean delays of mass board shipments for PS/2 line. *Page 121, Sept. 1.*
Software makers take wait-and-see stance on PS/2 board development. *Page 128, Sept. 1.*

SUPPLEMENT
Jack of all trades. *Page S/5, June 2.*
Board makers face challenge posed by PS/2. *Page S/11, June 2.*
High-end applications do well on their "boards". *Page S/12, June 2.*
XT-based CAD arena a speed-up card niche. *Page S/12, June 2.*
Number crunch (ing), continued. *Page S/23, June 2.*

Add-On Software

REVIEWS
HAL version 1.00—Lotus Development, *Page 67, Jan. 20.*
Goalseek—Mitan Advanced Software, *Page 91, March 24.*
4 Word—Turner-Hall Publishing, *Page 97, April 7.*
XYZ:Model—Intex Solutions, *Page 67, May 12.*
Impact Solutions—Enfin Software, *Page 87, June 23.*
Optimal Solutions—Enfin Software. *Page 87, June 23.*
TACTECS version 2.0—Royall Enterprises, *Page 93, July 21.*
@Liberty—Softlogical Software, *Page 87, Sept. 1.*
Simulated Solutions—Enfin Software, *Page 92, Sept. 29.*
SeeMORE for 1-2-3—Personics, *Page 116, Oct. 6.*
D.A.V.E.—Goldata Computer Services, *Page 121, Oct. 13.*

Artificial Intelligence

BUYERS' GUIDE
C or LISP? Programmers in AI are arguing over the most effective language. *Page 47, July 28.*
Expert-system shells may be key to artificial intelligence. *Page 47, July 28.*

FOCUS ON
PC programs boast natural-language ability. *Page 106, Feb. 24.*
Expert say 80386-based machines will usher AI into commercial market. *Page 133, April 7.*
Expert-systems maker says that '386 PCs are not essential for all uses. *Page 133, April 7.*
Wanted: Practical tips on AI implementation. *Page 134, May 26.*
What's a tried-but-true method for understanding AI? Read a book. *Page 135, May 26.*
Even expert systems have problems solving what they don't know. *Page 151, June 2.*
Expert-system developement shells can add efficiency, safety to nuclear plants. *Page 151, June 2.*
PC-based expert-system shells are bringing AI to mainstream America. *Page 151, June 2.*
Neural-network PCs can replicate patterns of human thought processes. *Page 114, Aug. 11.*
With neural networks, the capabilities of PCs will be enhanced dramatically. *Page 120, Aug. 11.*
Creating an expert system demands thorough planning, narrow focus. *Page 156, Oct. 20.*
Macintosh is fast catching up to PCs in AI market. *Page 139, Dec 8.*
The future of AI is quite transparent. *Page 139, Dec. 8.*

REVIEWS
VP-Expert version 1.0—Paperback Software International, Page 117, April 21.
ThoughtLine—Xypercom, *Page 121, June 2.*
Auto-Intelligence—Intelligence Ware Inc, *Page 93, July 21.*
The GoldWorks version 1.0/Developer 286 version 2.4—Gold Hill, *Page 81, Aug. 25.*
If/Then...—If/Then Solutions, *Page 127, Oct. 27.*
Xi Plus, Version 1.5—American Expertech, *Page 108, Nov. 17.*

CD ROM Databases

REVIEWS
Bookshelf—Microsoft. *Page 109, Oct. 6.*

Cabling Systems

FOCUS ON
Users can opt among many cabling systems. *Page C/26, Feb. 17.*
Fiber-optic cable praised for large network. *Page C/27, May 12.*
Mix-and-match cabling plan yields savings. *Page C/24, Aug. 4.*
Twisted-pair wire seen as ethernet standard. *Page C/32, Sept. 1.*
Short-haul cabling can leap tall buildings. *Page C/29, Dec. 1.*

REVIEWS
Clipper dBASE III—Nantucket. *Page 59, Jan. 13.*

CAD/CAM

BUYERS' GUIDE
CAE comes into its own as a sophisticated design tool. *Page 67, Feb. 10.*
Engineering software, hard match is vital. *Page 69, Feb. 10.*
Developers offer an array of exotic hardware choices. *Page 47, May 12.*
PC-based CAD systems starting to catch up with dedicated workstations. *Page 47, May 12.*
CAD/CAM users are discovering third dimension. *Page 89, Oct. 13.*
Growing CAD market opens new dimension for 3-D input peripherals. *Page 89, Oct. 13.*
3-D destined for major role in CAD applications. *Page 90, Oct. 13.*
3-D CAD and digitizers help doctors improve surgical procedures. *Page 95, Oct. 13.*

FOCUS ON
Emulating paper-control systems to keep track of design document. *Page 119, Jan. 6.*
Software communications links for CAD/-CAM. *Page 119, Jan. 6.*
'M' in CAD/CAM is the key for many users. *Page 122, Jan. 6.*
PC CAD users look for links to large systems. *Page 123, Jan. 6.*
Data transfer and CAD/CAM applications. *Page 125, Jan. 6.*
Design the revolution predicted with the advent of '386-based microcomputers. *Page 93, March 31.*
80386-based PCs on meteoric rise in the CAD arena. *Page 93, March 31.*
Workstation developer downplays threat posed by '386 PCs for design. *Page 93, March 31.*
Computer-aided design users await Xenix-386. *Page 94, March 31.*
New software will unlock potential of '386 machines. *Page 95, March 31.*
Computer integrated manufacturing: A shop-floor revolution. *Page 129, April 21.*
Low-cost, flexible microcomputers get job in factories. *Page 129, April 21.*
CIM puts right data in right place for the right people at the right time. *Page 130, April 21.*
Firm finds PCs increase shop productivity. *Page 132, April 21.*
As prices for computer-aided design plummet, users figure "It's worth it". *Page 97, June 16.*
CAD clearly ups productivity, but putting a price on gains is difficult. *Page 97, June 16.*
Plotters for PC-based CAD systems now cost less than you might think. *Page 104, June 16.*
PC CAD training costs cannot be overlooked. *Page 106, June 16.*
Some CAD users have little use for newest technology. *Page 97, Aug. 18.*
Photo-plotting software now compatible with the EGA environment. *Page 98, Aug. 18.*
CAD/CAM's future may not be in PS/2s. *Page 101, Aug. 18.*
PS/2s promise desktop emulation of a mainframe. *Page 104, Aug. 18.*
Market interest in printer/plotter for CAD output is picking up steam. *Page 137,*

Sept. 15.
Paper-size letter code. *Page 139, Sept. 15.*
Challenging the PC CAD output status quo. *Page 140, Sept. 15.*
CAD output: Expect more color, faster speed. *Page 142, Sept. 15.*
Debate over standards is picking up in CAD/CAM world. *Page 99, Dec. 15.*
Firms find IGES a key in production process. *Page 100, Dec. 15.*
The DFX standard is saving time and money for users of PC CAD. *Page 100, Dec. 15.*
A primer on standards that are currently used in the CAD/CAM arena. *Page 102, Dec. 15.*
CAD standards are also sought for operating systems, user interfaces. *Page 103, Dec. 15.*

SUPPLEMENT

XT-based CAD arena a speed-up card niche. *Page S/12, June 2.*
CAD performance is a reflection of software as well as hardware. *Page S/18, June 2.*
Gap narrows between simple draw packages and CAD application. *Page S/7, July 28.*
XT-based CAD arena a speed-up card niche. *Page S/12, June 28.*
CAD/CAM publishers unsure of PS/2, OS/2 impact on their market. *Page S/15, July 28.*
PS/2 and the CAD/CAM world. *Page S/15, July 28.*
CAD performance is reflection of software as well as hardware. *Page S/18, June 2.*
PS/2 display system is nice, but it doesn't thrill CAD/CAM users. *Page S/18, July 28.*
For low-end CAD companies, PS/2 means stick to the status quo. *Page S/20, July 28.*
Advanced machines will juice up solids-modeling applications. *Page S/22, July 28.*

REVIEWS

AutoCad 2.6—Autodesk. *Page 91, June 9.*
Visible Analyst Workbench version 2.2—Visible Systems. *Page 91, July 21.*
Junior Drafter—Learning Odyssey, *Page 92, Sept. 29.*
Microstation Version 2.1.2—Intergraph. *Page 102, Nov. 24.*
Teamwork/PCSA, Version 3.0—Cadre Technologies, *Page 73, Dec. 15.*

Communications Controllers

BUYERS' GUIDE

Terminals: What the doctor ordered; issues faced by hospital's DP managers resemble those faced by corporate MIS directors configuring mainframe nets. *Page C/1, March 31.*

FOCUS ON

Board maker still makes house calls to cure 3174 woes. *Page C/25, Feb. 24.*
Third-party firms catch up to IBM's 3174. *Page C/25, Feb. 24.*
Use of controllers, processors forges stronger host-LAN link. *Page C/27, April 14.*
New unified controllers focus network power. *Page C/30, June 9.*
Hospital cuts communication costs, expander allows for 3725 port sharing. *Page C/26, Aug. 4.*
Walldata's multiplexers cut costs, expand wide-area SNA connections. *Page C/27, Aug. 4.*
Simplifying data communications can be a complex process. *Page C/27, Oct. 27.*
Management of T-1 networks poses unique challenges for corporations. *Page C/36, Dec. 8.*
Firm takes individualistic path to networking. *Page C/40, Dec. 8.*

REVIEWS

Perstor 200-Series Advanced RL1 Controller—Systems and Software. *Page 57, Feb. 17.*

Connectivity Software

BUYERS' GUIDE

Language helps users develop connectivity software applications. *Page C/21, June 2.*
Using PCs from afar with connectivity software. *Page C/21, June 2.*
Program performs applications for PC conferencing. *Page C/22, June 2.*
Saving time and labor with electronic data interchange. *Page C/15, Aug. 4.*
File-transfer software: An effective pipeline to productivity. *Page C/19, Oct. 6.*
Follow-up projects get additional mileage from file-transfer purchases. *Page C/19, Oct. 6.*
Efforts to extract data from IBM's VSAM files are taxing, but pay off. *Page C/20, Oct. 6.*
Software packages aid in designing cabling schemes for broadband LANs. *Page C/23, Nov. 10.*
Some commandments for what a cable design system must offer users. *Page C/25, Nov. 10.*

FOCUS ON

The search for worldwide connectivity focuses on ISDN. *Page C/36, Jan. 13.*
Hardware links becoming more standard-

(Continued on Page S/6)

Failure to Back Up
Case Number 409

Obviously, this upwardly mobile program developer didn't know about the corporate backup strategies provided by Sytron Corporation. Sytron is the leading developer of PC-based mass storage solutions. No matter what variety of PC configuration your company has, Sytron has a backup solution to fit your needs.

SY-TOS,® Sytron's acclaimed Tape Operating System, has been adopted by IBM, COMPAQ, and Texas Instruments for tape backup on their PC lines. SY-TOS® also has been endorsed by virtually all of the major streaming tape drive manufacturers and leading system integrators, including Wangtek, Archive, Cipher, Tandberg, North Atlantic, Scientific Micro Systems' "Identica", Western Digital, and Tecmar.

A version of SY-TOS® also is available for a variety of tape drives that use DC1000 and DC2000 mini-data cartridges, including the COMPAQ 10-Megabyte and 40-Megabyte Fixed Disk Drive Tape Backup options as well as many other PC manufacturers' tape backup products.

And for those PC users who don't have a tape backup system, Sytron offers the same basic capabilities with SY-STOR,™ the floppy-based backup and restore software—a utility so powerful that *PC Magazine* named it their "Editor's Choice" for utilities of its kind. Since SY-STOR™ is designed to look and operate exactly like SY-TOS,® the two products together provide a total and consistent storage and retrieval solution from a single vendor.

So if your company is developing a backup strategy or revamping the strategy it has in place, look to the experts. As the leading computer makers and tape drive manufacturers already have discovered, Sytron has the technology and the expertise to meet all of your PC data storage requirements.

To find out how Sytron can fit into your corporate backup plan, call (617) 460-0106 in Massachusetts or 1-800-338-7522. Or write Sytron Corporation, 135 Maple Street, Marlboro, MA 01752. Telex 928-097. FAX (617) 485-9146.

Sytron Corporation

data cartridge technology™

The Universal Backup Choice.

Registered trademarks/Trademarks/Owners: Wangtek/Wangtek, Inc.; Archive/Archive Corp.; Cipher/Cipher Data Products, Inc.; North Atlantic/North Atlantic Industries, Inc.; "Identica" and Scientific Micro Systems/Scientific Micro Systems, Inc.; Western Digital/Western Digital Corp.; Texas Instruments/Texas Instruments; IBM/International Business Machines Corp.; COMPAQ/Compaq Computer Corp.; Tecmar/Tecmar, Inc.; Sytron, SY-TOS, and SY-STOR/Sytron Corporation.

1987 Index

(Continued from Page S/5)

ized. *Page C/26. Feb. 10.*
Software key to computing-control issue. *Page C/32, Feb. 10.*
Entrepreneurs at work filling void in link markets. *Page C/35, Feb. 10.*
Software developers offer support for superfast modems. *Page 121, March 3.*
Remote LAN access is riddled with problems. *Page C/54, April 28.*
Software for the road allows access to a LAN from a remote portable PC. *Page C/55, April 28.*
Software answers graphics-transfer needs. *Page 99, May 19.*
Public Protocol allows universal image transfer among microcomputers. *Page 100, May 19.*
Tools develop micro-mainframe links quickly. *Page C/41, July 14.*
IBM's ECF package should not be ignored. *Page C/42, July 14.*
Connectivity software provides LAN managers with troubleshooting tools. *Page C/35, Sept. 8.*
LAN-manager utility helps guidance of novice users at banking firm. *Page C/36, Sept. 8.*
Remote-access market touts new capabilities. *Page C/20, Dec. 22/29.*

REVIEWS

Relay Gold version 2.0—VM Personal Computing. *Page 55, Feb. 3.*
Lotus Express—Lotus Development. *Page 83, March 31.*
Hayes Smartmodem—Hayes Microcomputer. *Page C/24, April 7.*
Relay Silver—VM Personal Computing. *Page 117, April 21.*
dComm- > Link—FastCOMM Systems. *Page 91, May 5.*
Multiplex version 1.20a—Network Innovations. *Page C/12, May 5.*
InfoHost-A-Comm Electronics. *Page 77, May 19.*
Boyan version D1—Justin Boyan. *Page 124, June 2.*
Netware Assistant—Pacific Software. *Page C/12, July 7.*
Crosstalk Mk.4—Digital Communications Associates. *Page C/17, July 14.*
Smartcom II—Hayes Microcomputer Products. *Page C/15, July 21.*
The Carbon Copy Plus—Meridian Technology. *Page C/18, Aug. 11.*
Co-Compute—Harmony Technology Associates. *Page C/11, Sept. 8.*
In-Synch—American Video Teleconferencing. *Page C/12, Sept. 22.*
Direct Net—Delta Technology International. *Page C/11, Sept. 29.*
Desktop Express—Dow Jones & Company. *Page 111, Oct. 6.*
Freeway—Kortex. *Page 111, Oct. 6.*
Freeway Advanced—Kortex. *Page 111, Oct. 6.*
Grapevine—Computer Pathways. *Page C/21, Nov. 10.*
HyperACCESS—Hilgraeve. *Page C/13, Nov. 17.*
Co/Session—Triton Technologies. *Page C/11, Dec. 8.*
Entry Level System Netware 286—Novell. *Page C/15, Dec 15.*

Database-Management Systems

BUYERS' GUIDE

Customized databases combine flexibility with specialization. *Page 57, July 7.*
How far should developers take customization? *Page 57, July 7.*
Best database managers offer users power and simplicity. *Page 67, Oct. 20.*

FOCUS ON

Hardware advances fuel photo-database market growth. *Page 89, Feb. 24.*
Hardware, software developers striving for better image-database management. *Page 89, Feb. 24.*
Program captures booty for photograph database to be used in museums. *Page 89, Feb. 24.*
Storage a concern for photo database users. *Page 90, Feb. 24.*
Flat-file programs offer easy-to-use choice. *Page 98, March 3.*
Top relational-database managers emerging with simpler sets of controls. *Page 98, March 3.*
Ashton-Tate ships simplified management tool. *Page 103, March 3.*
Management program is easy to use and compatible with difficult dBASE. *Page 103, March 3.*
Improved shareware software scores success. *Page 108, March 3.*
Competition to stiffen among SQL developers after IBM endorsement. *Page 89, May 19.*
IBM's OS/2 announcement hoists SQL to standard status. *Page 89, May 19.*
SQL: Good lead-in to IBM's OS/2 database. *Page 95, May 19.*
dBASE III Plus clones are advancing on Ashton-Tate's turf. *Page 97, June 23.*
Compatibility a key issue for dBASE clones. *Page 98, June 23.*
SQL-based databases to increase functions on personal computers. *Page 98, May 19.*
dBASE, compiler have different followers. *Page 100, June 23.*
Modules allow dBASE add-on tools to address clones of dBASE III Plus. *Page 100, June 23.*
PC data jumps to multiuser systems. *Page 106, Aug. 18.*
Tips for choosing PC multiuser database-management software. *Page 106, Aug. 18.*
Users find that with photo databases, a picture is worth a thousand words. *Page 123, Sept. 15.*
Databases moving into imagery management. *Page 125, Sept. 15.*
Many complex hurdles to overcome in implementation of photo databases. *Page 130, Sept 15.*
The distributed DBMS offers promise as a unifier of remote corporate data. *Page 117, Nov. 24.*
The distributed database: lab to marketplace. *Page 118, Nov. 24.*
Developers see time is right to start working on DBMS strategies. *Page 120, Nov. 24.*
Distributed databases are still facing barriers to widespread acceptance. *Page 120, Nov. 24.*
Ashton-Tate, competitors draw battle lines in debate over dBASE standard. *Page 111, Dec. 15.*
Language barrier separates parties in escalating dBASE-standards tiff. *Page 113, Dec. 15.*

SUPPLEMENT

Breaking down the barriers to the mainframe; distributed databases are giving PC users information-searching tools that run equally well on micros. *Page S/17, April 21.*
SQL becomes a trusted standard language for developers of databases. *Page S/21, April 21.*
Searching for seamless interaction between mainframes and PCs. *Page S/24, April 21.*

Desktop Computers

BUYERS' GUIDE

Corporate buyers begin to evaluate 80386 desktop PCs. *Page 57, Feb. 17.*
'Obsolescence' of 8088 PC is costing companies. *Page 83, Jan. 13.*
8088-based PCs can still provide vital training role. *Page 86, Jan. 13.*
Networks put a new dance in old PCs, XTs. *Page 87, Jan. 13.*
80386-based PCs are topping all projections. *Page 91, March 3.*
'386 PCs will shake up industry from top down, observers said. *Page 91, March 3.*
80386-based PC may revolutionize drafting. *Page 94, March 3.*
Speed of 80386 makes it ideal for multitasking. *Page 94, March 3.*
Multitasking brings flexibility to the PC, according to advocates. *Page 95, March 3.*
Does the 80386 spell a multiuser revolution? *Page 96, March 3.*
Clone, compatibles makers seek users' trust. *Page 95, April 28.*
Clone makers and buyers are unsure of PS/2 impact. *Page 96, April 28.*
Compatibles prosper, but some experts still see rise in look-alike purchases. *Page 98, April 28.*
Long-held view of Mac superiority to PC in graphics just may be overrated. *Page 87, June 16.*
PS/2 is ready to give Mac tough competition to the graphics and publishing markets. *Page 87, June 16.*
How the Mac will fare in the graphics area. *Page 90, June 16.*
Corporate buying patterns seem likely to remain, study says. *Page 95, July 7.*
PS/2s are now making purchasing decisions more complicated. *Page 95, July 7.*
PS/2 seen accelerating clone-maker shakeout. *Page 99, July 7.*
A pair of "Operating environments" are helping to turn the page in desktop publishing. *Page 113, Aug. 25.*
The jury is still out on Micro Channel acceptance. *Page 113. Aug. 18.*
IBM's new PC bus architecture is a technical leap forward in performance. *Page 120, Aug. 18.*
Micro Channel could be risky investment. *Page 127, Aug. 18.*
Here's why IBM's new bus architecture has been named the "Micro Channel." *Page 129, Aug. 18.*
The high demand for '386-based micros has put a strain on supplies. *Page 79, Dec. 22/29.*
Intel expects to start meeting the demand for '386 chip by mid-1988. *Page 82, Dec. 22/29.*

SUPPLEMENT

A bit-by-bit revolution. *Page S/7, May 12.*
Microsoft's OS/2 to incorporate company's own window interface. *Page S/8, May 12.*
PS/2 microcomputer has departed from IBM's own open-system standard. *Page S/8, May 12.*
Addressability seen as key to microprocessors. *Page S/14, May 12.*
Clone makers begin making their moves into multiuser market. *Page S/14, May 12.*
Questions arise over the true position of PS/2 in the computer marketplace. *Page S/16, May 12.*

REVIEWS

PC's Limited 286-16—PC's Limited. *Page 73, Jan. 13.*
PC Designs GV-286—PC Designs. *Page 93, April 14.*
PS/2 Model 30—IBM. *Page 81, April 28.*
PS/2 Model 50—IBM. *Page 84, April 28.*
PS/2 Model 60—IBM. *Page 85, April 28.*
American Turbo—American Computer & Peripheral. *Page 63, May 12.*
PC Designs GV-386—PC Designs. *Page 109, May 26.*
ARC 386—American Research. *Page 71, June 16.*
Kaypro 386e—Kaypro. *Page 71, June 23.*
Wang Model 380—Wang Laboratories. *Page 67, June 30.*
PS/2 Model 30—IBM. *Page 85, Sept. 8.*
Zenith Z-386 Model 40—Zenith Data Systems. *Page 81, Sept. 22.*
Cordata WPC—Cordata. *Page 91, Sept. 29.*
Zenith Eazy PC—Zenith Data Systems. *Page 91, Sept. 29.*
Fivestar FS-386S—Fivestar Computers. *Page 118, Oct. 6.*
Compaq Deskpro 386/20—Compaq Computer. *Page 119, Nov. 10.*
ALR 386/220—Advanced Logic Research. *Page 121, Nov. 10.*
PC's Limited 386—PC's Limited. *Page 121, Nov. 10.*
AT&T 6386—AT&T. *Page 106, Nov. 17.*
Mitsubishi MP386—Mitsubishi Electronics. *Page 106, Nov. 17.*
WYSEpc 386—Wyse Technologies. *Page 105, Nov. 24.*
Tandy 4000-Tandy. *Page 120, Dec. 8.*

Desktop Publishing

BUYERS' GUIDE

PCs have taken over the boom market for desktop publishing. *Page 65, March 24.*
Turnkey systems ease setup of desktop-publishing systems; buyers of turnkey desktop systems are seeking flexibility and full support from industry's manufacturers. *Page 65, March 24.*
Expectations on the rise over concern of IBM's publishing plans. *Page 66, March 24.*
Some firms are offering just plain hardware for desktop publishing. *Page 67, March 24.*
Lack of standards in the marketplace leaves buyers confused. *Page 67, Sept. 29.*
The future of desktop publishing is unwritten. *Page 67, Sept. 29.*
Training is critical to mastering the art of desktop publishing. *Page 74, Sept. 29.*
Establishing goals is a priority in making wise purchasing decisions. *Page 75, Sept. 29.*

FOCUS ON

Desktop publishing has solidified its place in the PC market. *Page 109, Jan. 6.*
Early users voice enthusiasm over publishing results. *Page 111, Jan. 6.*
Word Processing, desktop fields begin to blur. *Page 113, Jan. 6.*
Training can sensitize users to the basics of good design. *Page 111, May 5.*
Without training, users run amok making ugly documents. *Page 111, May 5.*
Design guidelines for desktop publishing. *Page 117, May 5.*
Desktop publishing ignites battle for design standards. *Page 122, May 5.*
Templates serve as aid to novice designers. *Page 124, May 5.*
For some desktop users, teaming up the PC and Macintosh may be the best solution. *Page 131, June 2.*
IBM, Apple, going toe to toe over desktop publishing. *Page 131, June 2.*
Many factors in publishing hardware choice. *Page 132, June 2.*
Exploiting the resources offered by LANs. *Page 138, June 2.*
Publishing system geared to run on Sun workstations. *Page 141, June 2.*
PCs, Macs together pack a powerful punch.

(Continued on Page S/8)

1987 Index

(Continued from Page S/6)

Page 120, Aug. 25.
Encapsulated Postscript files aid growing Macintosh-PC compatibility. *Page 122, Aug. 25.*
IBM PC AT is chosen as publishing tool for the Mac software manual. *Page 122, Aug. 25.*
File exchange looked upon as a key desktop-publishing issue. *Page 124, Aug. 25.*
Dramatic growth for desktop publishing. *Page 151, Oct. 6.*
Ease of use attracting more users to low end of desktop publishing. *Page 153, Oct. 6.*
Compatibility seen as key to Postscript-clones success. *Page 154, Oct. 6.*
A wave of peripheral options pushes desktop publishing to new heights. *Page 156, Oct. 6.*
Wide range of desktop-publishing packages complicates choices. *Page 129, Nov. 24.*
Word processing vies with desktop publishing. *Page 135, Nov. 24.*
High-end users appreciate benefits of scanners and large-screen monitors. *Page 136, Nov. 24.*

SUPPLEMENT
Desktop publishing: A software solution. *Page S/25, July 28.*
Experts offer plethora of predictions for desktop publishing in the 1990s. *Page S/25, July 28.*
Many word processors incorporating features of desktop publishers. *Page S/30, July 28*

REVIEWS
Kodak Datashow System—Sayett Technology. *Page 59, Jan. 27.*
Harvard Professional Publisher—Software Publishing. *Page 67, March 3.*
HALO Desktop Publishing Editor—Media Cybernetics. *Page 85, March 3.*
Intellipress/Venture Publisher—Cordata. *Page 75, March 10.*
PageMaker version 1.0—Aldus. *Page 75, March 10.*
Hot Lead version 1.0—Janus Associates. *Page 101, April 7.*
Publisher's Paintbrush—ZSoft. *Page 87, May 5.*
SWFTE International—Glyphix. *Page 65, May 12.*
The PFS: First Publisher—Software Publishing Co. *Page 83, Aug. 25.*
The Office Publisher—Laser Friendly. *Page 89, Sept. 29.*
Drafix 1 Plus version 2.0—Foresight Resources. *Page 125, Oct. 27.*
Byline—Ashton-Tate. *Page 127, Nov. 10.*

Disk Backup/Tape Drives

BUYERS' GUIDE
The need for tape backup is evolving beyond an option. *Page 75, May 26.*

FOCUS ON
Portables are a convenient backup alternative. *Page 107, Jan. 13.*
Tape and hard-disk combination has added capacity, flexibility. *Page 107, Jan. 13.*
External backup units don't make sense for portables and lap-tops. *Page 109, Jan. 13.*
Drives built to travel, but most stay home. *Page 112, Jan. 13.*
Optical storage gains popularity among businesses. *Page 81, Feb. 3.*
Users focus on the hows, not ifs, of backup. *Page 79, Feb. 3.*
Permanence of storage media varies greatly. *Page 80, Feb. 3.*
Optical disks will be useful as backup devices when prices decline. *Page 79, Feb. 3.*
Videotape backup is reliable, cheap method. *Page 82, Feb. 3.*
Use of video modems can make large-scale data distribution easier. *Page 83, Feb. 3.*
New generation of PCs expected to spur tape-backup market. *Page 114, April 14.*
Move to tape backup using '386 PCs will be gradual. *Page 17, April 14.*
Tape-backup industry accommodating high-capacity storage needs of '386s. *Page 109, April 14.*
Tape-backup developers already ensuring proper 'handshaking' for '386. *Page 112, April 14.*
User reports easy installation of tape backup for '386 PCs. *Page 114, April 14.*
Meeting tape-backup needs of '386 PC users may be difficult. *Page 120, April 14.*
Tape-drive choices slimmer than users think. *Page 111, June 9.*
Guessing who made your tape drive? Manufacturers aren't making it any easier. *Page 117, June 9.*
There are few alternatives for quarter-inch cartridges. *Page 120, June 9.*
Capacity of cartridge tape drives may rise to 100 megabytes by next year. *Page 125, June 9.*
Software features can help distinguish tape manufacturers. *Page 127, June 9.*
IBM moves keep tape market from settling and manufacturers guessing. *Page 12, July 14.*
Tape backup increases as technology changes. *Page 111, July 14.*
Ease of use, education help deter corporate backup disasters. *Page 115, July 14.*
Microcomputer managers stress the importance of strict backup procedures. *Page 118, July 14.*
Reducing the time it takes for tape backup: A weekly arrangement. *Page 158, Oct. 13.*
The tape-backup jungle: Users searching for common standard. *Page 158, Oct. 13.*
Software standards: The hope for tape backup. *Page 162, Oct. 13.*
Users report minimal problems with backup. *Page 166, Oct. 13.*
Problems of upgrading hard disks. *Page 170, Oct. 13.*
Industry forums give users firsthand look at tape technology. *Page 145, Nov. 10.*
Users now have more to choose from as new tape-backup strategies emerge. *Page 145, Nov. 10.*
Slot size plays major role in determining the design of tape drives. *Page 146, Nov. 10.*
Tape cartridges are backup system of choice for the majority of PC users. *Page 146, Nov. 10.*
Cartridges rivaled by worthy opponents. *Page 147, Nov. 10.*
QIC drive standards travel a slow road to consistent compatibility. *Page 147, Nov. 10.*
Firm finds a different way to keep high data density on tape track. *Page 150, Nov. 10.*
WORM optical disks are still too expensive for everyday backup. *Page 154, Nov. 10.*
SCSI enters the ranks as a popular solution to users' tape-backup needs. *Page 158, Nov. 10.*
Software is the key to unlocking power of tape-backup system. *Page 158, Nov. 10.*
Exabyte develops 8mm digital-tape backups, praises high capacity. *Page 159, Nov. 10.*
Nestar controller aids disk-to-tape backup. *Page 159, Nov. 10.*
4mm digital-tape drive may be the wave of the future. *Page 160, Nov. 10.*
VideoTrax and digi-data translate digital data to video, and back again. *Page 160, Nov. 10.*

SUPPLEMENT
Outfitting the office. *Page S/1, March 17.*
Accounting: Better backup heralds move from mainframe to PCs. *Page S/5, March 17.*
Data storage, security crucial for small firms using PC for accounting. *Page S/7, March 17.*
Engineering applications: Maximum megabytes. *Page S/13, March 17.*
Designer software firm fashions optical-disk mass-storage solution. *Page S/16, March 17.*
Users anxiously await something better with compact disk solution. *Page S/24, March 17.*
Developing a data 'insurance policy'. *Page S/3, Sept. 29.*
Walking the tightrope. *Page S/5, Sept. 29.*
With backup, incompatibility is rule rather than exception. *Page S/6, Sept. 29.*
Tape market waiting to see if IBM will be stabilizing influence. *Page S/8, Sept. 29.*
Improving software makes tape-backup training an easy task. *Page S/9, Sept. 29.*
Data interchange to address incompatibility among media formats. *Page S/12, Sept. 29.*
Data security is major issue in tape backup. *Page S/14, Sept. 29.*
Dealers put users on right backup track. *Page S/15, Sept. 29.*

REVIEWS
Emerald DOS 80-8000—Emerald Systems. *Page C/29, Feb. 24.*
Pelican 6.6 Mass Storage System—Pacific Micro Systems. *Page 99, April 14.*
PC-9Track—Alloy Computer Products. *Page C/11, April 28.*

DOS/Macintosh Interface Products

REVIEWS
FT-100—Dayna Communications. *Page C/27, Feb. 3.*
Apple PC 5.25 Drive—Dayna Communications. *Page 98, Oct. 20.*
Daynafile—Dayna Communications. *Page 98, Oct. 20.*
MatchMaker—Dayna Communications. *Page 98, Oct. 20.*
Apple File Exchange—Apple Computer. *Page 103, Oct. 20.*
DataViz MacLink Plus—Dataviz. *Page 103, Oct. 20.*
DataViz Translators—Dataviz. *Page 103, Oct. 20.*

Electronic Mail

BUYERS' GUIDE
Improved software, services let users transfer non-text data over E-mail. *Page C/19, April 28.*
E-mail services broaden links to corporate, telex networks. *Page C/46, Oct. 20.*
X.400 standard provides protocols to work across variety of E-mail services. *Page C/50, Oct. 20.*

FOCUS ON
Host/E-mail links cut telex costs and connect variety of mail systems. *Page C/13, March 24.*
Managing the technology of communication. *Page C/14, March 24.*
Experimental lens delivers overall view, sharp focus in E-mail system. *Page C/40, June 16.*
E-mail expands scope to include sales and financial reports, order entry. *Page C/36, Sept. 15.*
Global E-mail directory service: when, how and at what price. *Page C/26, Dec. 1.*

REVIEWS
Knowledge Network—Applied Knowledge Group. *Page C/27, Feb. 3.*
InBox—Think Technologies. *Page C/11, Sept. 15.*

Emulators/Terminals

BUYERS' GUIDE
Users make new demands of terminal emulation. *Page C/27, March 31.*
Corporations rely on micros to double as DEC terminals. *Page C/13, June 23.*
PC terminals offer low-cost solution for multiuser system. *Page C/17, July 21.*
PC terminals a smart choice for many users. *Page C/18, July 21.*
Multiple terminal emulators stress versatility. *Page C/15, Sept. 15.*

FOCUS ON
Networks, PCs and emulation remedy ills of connectivity. *Page C/12, Jan. 27.*
Coprocessors making network connections. *Page C/15, Jan. 27.*
Emulation cards used to tie stock traders' PCs to data in bank's minis. *Page C/15, Jan. 27.*
PC-emulation scheme bridges gaps between various E-mail systems. *Page C/16, Jan. 27.*
User's woes with emulation packages: technical limitations, cost, ease of use. *Page C/19, Feb. 24.*
Vendors gear up for change. *Page C/19, Feb. 24.*
Emulation gives PC functionality to DEC terminals. *Page C/17, April 7.*
Texas lawyers eliminate paper chase with pilot document-retrieval system. *Page C/17, April 7.*
Firm hooks PCs into Ethernet-VAX system. *Page C/15, May 26.*
Farm co-op tracks sales via PCs, system/36s. *Page C/18, May 26.*
5251 Emulation links local PC, host processing. *Page C/19, May 26.*
Distributed network of System/36s and PCs are the newest growth at agriculture firm. *Page C/20, May 26.*
Companies link more Macs to IBM mainframes, minis. *Page C/1, Aug. 11.*
Use of Asynch PC-to-mini links growing more common. *Page C/26, Oct. 27.*
PCs can be full-fledged remote terminals. *Page C/27, Oct. 27.*
Asynchronous emulation provides strong links. *Page C/28, Oct. 27.*
Board makers switching to software control. *Page C/29, Nov. 24.*

REVIEWS
Escort—AT&T. *Page C/29, Jan. 13.*
3-N-1 Adapter—Attachmate. *Page C/29, Jan. 13.*
PC 3270 Emulation Entry Level version 1.1. *Page C/33, March 24.*
VTERM/220—Coefficient Systems. *Page C/24, April 7.*
PC Terminal—Santa Clara Systems. *Page C/13, Nov. 24.*
CQ 3270R—CQ Computer Communications. *Page C/13, Dec. 1.*
ColorScan/2—Datamedia. *Page C/11, Dec. 22/29.*

Graphics Boards

BUYERS' GUIDE
"Bells and whistles" get EGA board sales. *Page 81, Aug. 4.*
Buyers disagree on future position for EGA and VGA. *Page 81, Aug. 4.*

FOCUS ON
Exploring the rise of PC graphics capabilities. *Page 77, May 12.*

Graphics interfaces support diverse standards. *Page 82, May 12.*
Video resolution is approaching its limits. *Page 85, May 12.*
Controversial video-graphics array: Users adopting wait-and-see attitude. *Page 75, July 28.*
Sorting out the display modes of IBM's VGA. *Page 76, July 28.*
Hercules promotes alternative display format. *Page 77, July 28.*
IBM's VGA should increase market for high-end graphics products. *Page 79, July 28.*
Makers of compatible video boards set to confront IBM's VGA standard. *Page 79, May 12.*
VGA could push EGA off graphics pedal. *Page 80, July 28.*
Graphics-card firms look beyond realm of video-graphics array. *Page 122, Sept. 1.*
High-resolution board makers struggle for compatibility. *Page 139, Oct. 13.*
VGA will eventually replace EGA as the standard for graphics resolution. *Page 139, Oct. 13.*
IBM's video-graphics array cards: Similar to, but not the same as, EGAs. *Page 148, Oct. 13.*
VGA standard catching on for non-PS/2 PCs. *Page 149, Oct. 13.*
The analog advantage: more colors than an ordinary digital monitor. *Page 147, Dec. 1.*
Third-party video boards expected to proliferate in wake of VGA's Debut. *Page 147, Dec. 1*
Plug-compatible vendors take aim at VGA card. *Page 148, Dec. 1.*
High-resolution video vendors contend with IBM's VGA standard. *Page 152, Dec. 1.*
What is the VGA standard? A probe into IBM's latest graphics-display Wares. *Page 153, Dec. 1.*

SUPPLEMENT

EGA vendors trumpet all-encompassing cards. *Page S/9, June 2.*
CAD performance is reflection of software as well as hardware. *Page S/18, June 2.*

REVIEWS

EGA Wonder—ATI Technologies. *Page 91, Jan. 6.*
Hercules InColor Card—Hercules Computer Technology. *Page 87, June 9.*
EGA Master 800—Tecmar. *Page 85, July 7.*
Super EGA Hires board—Genoa Systems. *Page 85, July 7.*
The Kicker—Aristocad. *Page 83, July 14.*

Graphics Software

BUYERS' GUIDE

'Easy' is the critical word for users searching for chartmaking software. *Page 49, March 10.*
Design software packages offer CAD capabilities to undemanding users. *Page 51, March 10.*
Corporate use of graphics software continues to rise. *Page 95, June 2.*
Freehand graphics software has put creativity within everyone's grasp. *Page 95, June 2.*
Printers, plotters provide panache to jazzed-up graphics. *Page 77, Dec. 1.*
Projecting beyond the screen. *Page 77, Dec. 1.*

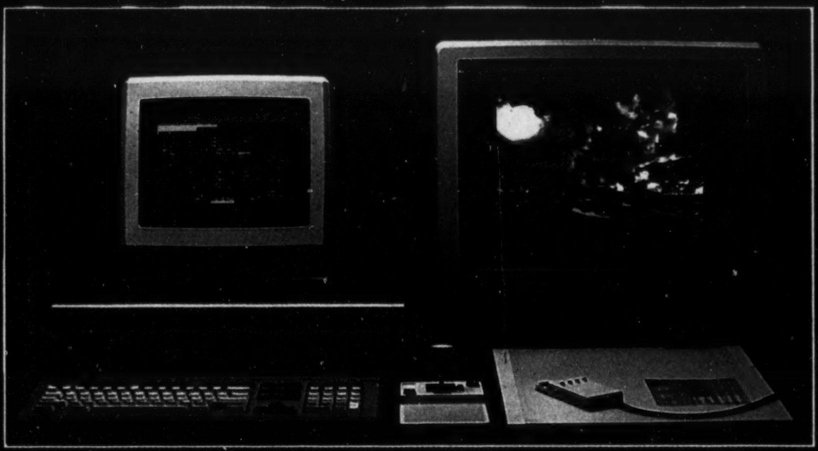
FOCUS ON

Low-end graphics: Enough features for some, easily outgrown by others. *Page 97, Jan. 20.*
Firm's Graph-In-The-Box popped up just in time for TV-ratings service. *Page 98, Jan. 20.*
Enhancements make best of products at hand. *Page 100, Jan. 20.*
Low-cost package challenges CAD outlook. *Page 104, Jan. 20.*
$99 Desktop Publisher fits most business needs. *Page 108, Jan. 20.*
Checklist lets speaker focus objectives and scope of presentation. *Page 105, Feb. 10.*
Graphics packages show their worth in PC-generated visual presentations. *Page 105, Feb. 10.*
Put graphics software to work effectively. *Page 107, Feb. 10.*
Graphics presentation is nothing without punch of a polished delivery. *Page 110, Feb. 10.*
PC-generated slide shows take center stage. *Page 112, Feb. 10.*
Rules to follow in improving the use of graphics. *Page 114, Feb. 10.*
Graphics conference reveals industry in flux. *Page 115, April 7.*
Micros increasingly in evidence at annual graphics conference. *Page 117, April 7.*
Graphics in new IBM PCs stir speculation. *Page 118, April 7.*
Steve Jobs heads list of award winners at the NCGA gala dinner. *Page 118, April 7.*
Conference sparks shoot-out among graphics packages. *Page 121, April 7.*
Graphics capabilities are PS/2's strongest suit, analyst says. *Page 103, May 5.*
Users find built-in VGA of the PS/2s to be both a curse and convenience. *Page 103, May 5.*
Graphics-board firms see life after PS/2. *Page 104, May 5.*
Graphics-software makers beat path to

(Continued on Page S/11)

ISICAD

DESIGN SYSTEMS
FOR THE REAL WORLD



Today's real world is one of tight deadlines and changing schedules. That's why ISICAD, formerly CalComp Systems Division, is committed to CAD that's quick, easy and efficient.

PRISMA™, the latest in our product line, enables architects, engineers, designers and facilities managers to look beyond the drawing board to a turnkey solution. With modular software and high-performance hardware, sophisticated data management and network expansion capabilities, PRISMA gives you maximum flexibility in your business decisions.

CADVANCE®, our powerful 2½-D design and drafting software, is the fastest PC-CAD system on the market. With advanced features, open architecture and third-party products, CADVANCE gives you a cost-effective, easy-to-learn CAD solution.

SOLID VISION™ takes you into the world of 3-D design on your PC. You can model in any view, generate wireframes and perspectives, produce hidden line and shaded images... even dynamic "walk arounds."

Don't design *around* the real world. Design *for* it with practical CAD solutions proven in over 15,000 installations. From stand-alone PC software to fully integrated turnkey systems, ISICAD has the answers for the real world. And that's the only world that matters.

Call or write today for information on how ISICAD can meet your design requirements.

ISICAD

DESIGN SYSTEMS
FOR THE REAL WORLD

ISICAD, Inc. P.O. Box 61022, Anaheim, CA 92803-6122, (714) 533-8910
Toll Free: Outside California 800-634-1CAD. In California 800-527-4347

1987 Index

(Continued from Page S/9)

PS/2. *Page 108, May 5.*
Like software firms, PC managers are challenged to support both DOS, OS/2. *Page 108, May 5.*
Analysts, software firms tout OS/2 as boon to future applications. *Page 106, Aug. 11.*
Experts split over PS/2 line's impact in graphics arena. *Page 106, Aug. 11.*
PC users can expect an increase of Mac-level graphics programs soon. *Page 108, Aug. 11.*
Dedicated systems are best for companies pressed for time. *Page 99, Sept. 1.*
Home-grown AT-based workstations meet graphics needs of small firms. *Page 103, Sept. 1.*
AT-based workstations are making sophisticated graphics more affordable. *Page 104, Sept. 1.*
Graphics users look to the promise of PS/2. *Page 106, Sept. 1.*
Graphics-software makers launch a 'features war' for users' attention. *Page 115, Sept. 29.*
Are graphics desktop presentations about to come of age? *Page 117, Sept. 29.*
Power and ease of use are high on many graphics-software users' wish lists. *Page 122, Sept. 29.*
Power of '386 machines should bring major growth to PC graphics market. *Page 132, Oct. 20.*
Some doubts remain concerning the future of PC graphics market. *Page 138, Oct. 20.*
Hardware developments broaden possibilities for graphics software. *Page 141, Oct. 20.*
New data-transfer programs allow data and graphics to unite with ease. *Page 127, Nov. 17.*
Users agree: Graphics tell a better story. *Page 128, Nov. 17.*
Utilities make graphics-transfer wishes a reality. *Page 129, Nov. 17.*
Graphics environments, integrated software enhance the transfer of data. *Page 132, Nov. 17.*
Desktop-publishing packages move books from screen to page. *Page 133, Nov. 17.*
Graphics module for database system offers users immediate gratification. *Page 133, Nov. 17.*

SUPPLEMENT

Chip advances expand software possibilities. *Page S/5, July 28.*
VGA moves graphics to the forefront. *Page S/5, July 28.*
Authoring system shows innovative graphics can be useful business tools. *Page S/10, July 28.*
Publishers combining charting functions and freehand draw features. *Page S/10, July 28.*
New developments in graphics software are currently under way. *Page S/12, July 28.*

REVIEWS

Freelance Plus—Lotus Development. *Page 73, Jan. 13.*
Publisher's Paintbrush—ZSoft. *Page 87, May 5.*
Missing Link—PC Quick-Art. *Page 91, May 5.*
R:base Graphics 1.0—Microrim. *Page 79, May 19.*
Dynaperspective—Dynaware. *Page 121, June 2.*
GRASP—Paul Mace Software. *Page 92, June 9.*
Opus One 1.1—Roykore Software. *Page 75, June 16.*
Pro3D 1.0—Enabling Technologies. *Page 83, July 7.*
Ventura Publisher 1.1—Xerox. *Page 85, July 7.*
VP-Graphics—Paperback Software International. *Page 83, July 7.*
ClickStart—hDC Computer Group. *Page 79, July 14.*
EGA-16—hDC Computer Group. *Page 79, July 14.*
Windows Graph—Micrografx. *Page 79, July 14.*
Boeing Graph—Boeing Computer Services. *Page 95, July 21.*
Show Partner F/X—Brightbill & Roberts Co. Ltd. *Page 95, July 21.*
Harvard Graphics—Software Publishing. *Page 88, Sept. 8.*
SLED Utility—VS Software. *Page 108, Sept. 15.*
Chart 3.0—Microsoft. *Page 85, Sept. 22.*
Fontware—Bistream. *Page 116, Oct. 6.*
Fontware Advanced—Bistream. *Page 116, Oct. 6.*
GraphWriter II—Lotus Development. *Page 109, Dec. 1.*
EnerGraphics 2.2—Enertronics Research. *Page 72, Dec. 22/29.*

Hard Disks

BUYERS' GUIDE

Space savings, portability, are making hard-disk cards increasingly popular. *Page 75, May 26.*
Hard-disk card answer for limited space. *Page 80, May 26.*
There's no such thing as too much storage space. *Page 85, Dec. 8.*
Which type of storage device is best? That all depends on what you need. *Page 85, Dec. 8.*
Reliability is the key factor when choosing data-backup devices. *Page 86, Dec. 8.*
Lap-tops are gaining the functionality of desktop computers. *Page 87, Dec. 8.*

FOCUS ON

Manufacturers ready hard disks to meet requirements of speedier PCs. *Page 85, Jan. 27.*
32-bit Micros will need new storage system. *Page 85, Jan. 27.*
Average access time more crucial than ever. *Page 91, Jan. 27.*
High-performance drives will also benefit XTs, ATs. *Page 91, Jan. 27.*
Startups take the lead in '386-inspired market. *Page 93, Jan. 27.*
Demand for better disk drives drawing Tandon back into market. *Page 96, Jan. 27.*
Better controllers mean better disk drives. *Page 95, Feb. 24.*
Today's controller cards are fine, but tomorrow's look even better. *Page 95, Feb. 24.*
RLL encoding catching on, saving space. *Page 96, Feb. 24.*
Some firms pushing RLL methods further to boost memory 60 percent. *Page 96, Feb. 24.*
Firm developing half card to link SCSI peripherals. *Page 97, Feb. 24.*
Device-level interfaces not interchangeable with system-level interfaces. *Page 100, Feb. 24.*
The foggy future of the disk-interface market. *Page 100, Feb. 24.*
Sector skippers beat bad-block problems pronto. *Page 101, Feb. 24.*
Users will always find uses for more space on hard disk. *Page 105, April 28.*
Two automatic tape-backup systems help users easily care for data. *Page 106, April 28.*
Untrained users present problems in disk management. *Page 106, April 28.*
Frequent backups essential for effective management of a hard-disk's data. *Page 107, April 28.*
Shared hard disks still beat mainframes, experts say. *Page 114, April 28.*
Hard-disk payoff lies in planning data storage and precautionary backups. *Page 119, April 28.*
PS/2's 3.5-inch drives may set new standard. *Page 91, May 12.*
3.5-inch media standard seen as beneficial to the portables market. *Page 91, May 12.*
3.5-inch drive makers expect boost in sales because of PS/2 line. *Page 92, May 12.*
IBM 5.25-inch WORM disk drive could turn the direction of standard. *Page 107, June 23.*
IBM WORM bolsters optical-drive future. *Page 107, June 23.*
Corporate use of CD ROMs to distribute custom databases could rise dramatically. *Page 110, June 23.*
Market for optical storage branching out. *Page 118, June 23.*
5¼-inch WORM drive fine for storing bank and legal documents. *Page 119, June 23.*
Erasable technology soon to blossom to mass-storage needs, experts say. *Page 120, June 23.*
Hard-disk performance keeps pace with computer advances. *Page 109, July 7.*
New hard-disk controllers store 50% more. *Page 112, July 7.*
Disk caching gets the most out of hardware. *Page 113, Aug. 4.*
Space saving is main issue in implementing disk-caching schemes. *Page 116, Aug. 4.*
Disk-caching software helps speed access. *Page 118, Aug. 4.*
Disk-caching solutions vary with the boards. *Page 124, Aug. 4.*
Effective caching critical to disk-intensive users. *Page 128, Aug. 4.*
Users' disk wishes are coming true: Smaller, lower-priced, more memory. *Page 140, Oct. 27.*
Manufacturer's compete to develop options for PC storage. *Page 141, Oct. 27.*
Floppy disks rivaling hard disks in memory. *Page 142, Oct. 27.*
Wanted: High-capacity 3.5-inch disk drive. *Page 146, Oct. 27.*
Bernoulli boxes offer users another option for removable storage. *Page 148, Oct. 27.*
CD ROM has the potential to reach more general PC users, observers say. *Page 141, Nov. 24.*
CD ROM products that target general audience. *Page 142, Nov. 24.*
CD ROM offers lots of room for applications. *Page 144, Nov. 24.*
CD ROM publishing tool allows for development of optical disks in-house. *Page 144, Nov. 24.*

SUPPLEMENT

A mighty Cray gets an assist from the PC AT. *Page S/15, March 17.*
When marketing databases expand: Proper planning can contain database sprawl. *Page S/19, March 17.*
Speed, convenience of hard disks are winning corporate office users. *Page S/23, March 17.*
Human Resources: Time to come in from the cold? *Page S/29, March 17.*

REVIEWS

ID130 Hard Disk—Priam System. *Page 81, Jan. 20.*
Tandy Disk Cartridge System (DCS)—Radio Shack. *Page 77, March 17.*

Input Devices

FOCUS ON

Difference between trackballs and mice are all in the palm of your hand. *Page 110, Feb. 17.*
Design of trackballs makes them a natural for handicapped use. *Page 111, Feb. 17.*
Trackball market on a slow, unsteady roll. *Page 110, Feb. 17.*
Proper keyboard habits can limit wrist strain. *Page 125, April 28.*
Apple offering keyboard based on IBM standard. *Page 126, April 28.*
Tips help users avoid disorders caused by overuse of keyboard. *Page 128, April 28.*
Clones of enhanced IBM keyboard offer an improved design. *Page 129, April 28.*
IBM's PS/2 mouse follows Apple's precedent. *Page 153, June 2.*
Mice are coming out of the PS/2 woodwork. *Page 156, June 2.*
Many users not sure about mice. *Page 157, June 2.*
Three species of mice all 'see' fine, thank you. *Page 158, June 2.*
Keep application, ease of use in mind when choosing alternative input device. *Page 127, Sept. 29.*
Future of light pens is cloudy due to popularity of graphical interfaces. *Page 177, Nov. 10.*
Light pens can provide the right touch for experts and novices alike. *Page 178, Nov. 10.*

REVIEWS

Microsoft Mouse—Microsoft. *Page 125, Oct. 13.*
Manager Mouse Cordless—Numonics. *Page 118, Dec. 8.*
Mouse-Trak—ITAC Systems. *Page 118, Dec. 8.*

Integrated Software

BUYERS' GUIDE

Spreadsheet users look for ease of use, power and price; integrated packages include many applications but spreadsheets are still at the core of the programs. *Page 59, Jan. 13*
Lotus 1-2-3 clones offer users same integrated abilities, lower price tag. *Page 66, Jan 13.*
Choosing between integrated and dedicated software. *Page 71, June 9.*
Framework, symphony are market leaders, each with distinct advantages. *Page 72, June 9.*
Add-Ons boost software, maintain command structure. *Page 79, Nov. 10.*
Common command structure is key to integrated packages. *Page 79, Nov. 10.*

FOCUS ON

Development tools to widen vistas of 1-2-3. *Page 113, Feb. 17.*
The only question of new Lotus Tack with 1-2-3 is: How successful will it be? *Page 113, Feb. 17.*
Low-cost Lotus add-ins may prove a boon to users seeking integration. *Page 101, March 24.*
WordPerfect cultivates environment in which all applications will share a common user interface. *Page 101, March 24.*
Operating environment standard the key to PC integration, firms say. *Page 106, March 24.*
Graphics become indispensable part of spreadsheet packages. *Page 118, July 21.*
Taking live links one step further. *Page 118, July 21.*
Are modeling programs better than spreadsheets? *Page 129, Aug. 18.*
Spreadsheet makers say they hold their own against modeling software. *Page 132, Aug. 18.*
Developers remain optimistic despite sluggish growth of integrated programs. *Page 107, Sept. 8.*

(Continued on Page S/12)

1987 Index

(Continued from Page S/11)

Integrated software makers brace for OS/2. *Page 110, Sept. 8.*
How will integrated software fare with OS/2? *Page 142, Oct. 6.*
OS/2 to bring uncertainty to integrated areas. *Page 143, Oct. 6.*
Applications will affect integration under OS/2 presentation manager. *Page 147, Oct 6.*
Microsoft Works for the Macintosh meets basic business needs. *Page 123, Dec. 1.*
Microsoft eyes DOS world with PC Works. *Page 124, Dec. 1.*
New integrated product transcends categories. *Page 129, Dec. 1.*
Choices limited for Mac integrated software. *Page 130, Dec. 1.*
Lotus is laying odds that Macintosh users listen to modern jazz. *Page 130, Dec. 1.*

SUPPLEMENT

Customizable applications: Users want packages they can easily tailor to their own specifications. *Page S/9, April 21.*

REVIEWS

Multimate—Ashton-Tate. *Page 63, May 12.*
Enable 2.0—Software Group. *Page 123, June 2.*
4G—Pan Information Processing System. *Page 85, June 23.*
OfficeWrite Express—Office Solutions. *Page 121, Oct. 13.*
Better Working Eight-In-One, Version 1.06—Spinnaker Software. *Page 75, Dec. 15.*

Intersystem/Intervendor Links

BUYERS' GUIDE

File-transfer software lets users capitalize on machine's assets. *Page C/14, Dec. 22/29.*

FOCUS ON

Firm links 500 users to 5 supermini systems. *Page C/31, Jan. 20.*
The phenomenon of finger-pointing in micro networks. *Page C/12, April 7.*
How not to get the runaround if trouble strikes your network. *Page C/13, April 7.*
Multivendor link adopts consistency, allows variety. *Page C/33, June 30.*
Order-entry/tracking systems help movers. *Page C/29, Aug. 25.*
Excelan, Micom target specific market niches with TCP/IP offerings. *Page C/41, Oct. 6.*

LAN Applications

BUYERS' GUIDE

Lehman college network helps student, faculty share software and cut down on security problems. *Page C/40, April 28.*
LAN applications-accounting software. *Page C/16, May 19.*
LAN software simplifies planning, organizes project resources, finance. *Page C/24, Aug. 25.*
File locking, compatibility sought in LAN-based DBMs. *Page C/42, Oct. 20.*

FOCUS ON

Packages connect users, not just machines. *Page C/26, Jan. 20.*
When upgrading to LAN packages, consider needs. *Page C/27, Jan. 20.*
Interest grows in network database-management systems. *Page C/19, March 24.*
LAN database helps cut cost of fund raising. *Page C/19, March 24.*
LAN accounting, business applications only now entering mainstream usage. *Page C/22, March 24.*
International links complicate LAN building. *Page C/20, March 24.*
Computer conferencing leaves lab to find new life in the business world. *Page C/25, June 23.*
Network system helps to manage reviews, updates of group documents. *Page C/28, June 23.*
Shared-access utility cuts LAN software costs. *Page C/24, July 28.*
The future of Network applications still a developers' waiting game. *Page C/28, Sept. 8.*
Modular accounting system will run under both Netware and OS/2. *Page C/33, Sept. 8.*
Reliable ARCnet network swiftly moving out of the best-kept-secret category. *Page C/35, Nov. 17.*
Standardization: the next step for ARCnet. Page C/40, Nov. 17.
Standard Microsystems to release faster version of ARCnet next year. *Page C/44, Nov. 17.*
Vendors, trade group want to make ARCnet the official standard. *Page C/45, Nov. 17.*

REVIEWS

Hewletts—Conetics Systems. *Page C/9, April 21.*
HP LU 6.2 Node Exerciser—Hewlett-Packard. *Page C/12, May 26.*
LANscape 1.0—NCompass Software. *Page C/11, Aug. 25.*

LAN Operating Systems

BUYERS' GUIDE

LAN users demand more features in database-management packages. *Page C/19, April 28.*
Simulation tool helps LAN managers test load. *Page C/38, April 28.*
New LAN operating systems widen the power of distributed processing. *Page C/21. July 14.*
Microsoft LAN, OS/2 seen being tightly linked. *Page C/25, July 14.*
LAN systems bring processing load from workstation to network server. *Page C/28, July 14.*
OS/2 an opportunity for database developers. *Page C/30, July 14.*
Menuing systems: A la carte or not, it's the user's choice. *Page C/17, Aug. 25.*
OS standardization leaves crucial difference. *Page C/37, Oct. 20.*
LAN operating systems distinguished by methods of adhering to standards. *Page C/40, Oct. 20*
Remote-access software extends power of LAN to reach distant users. *Page C/15, Nov. 24.*
Third-party firms step forward to fill the need for remote LAN access. *Page C/15, Nov. 24.*

FOCUS ON

The definition of fault tolerence extends to LANs. *Page C/17, Feb. 3.*
System makers differ in approach to fault tolerence. *Page C/18, Feb. 3.*
Fault tolerence is not suited for all LANs. *Page C/22, Feb. 3.*
Increasing strategic importance of LANs underscores security as an issue. *Page C/33, June 2.*
Third-party firms heighten system security. *Page C/36, June 2.*
Best of both worlds: Many firms link PCs with Macs, other machines. *Page C/25, Sept. 22.*

REVIEWS

Tapestry—Torus System. *Page C/42, Jan. 20.*
IBM Workstation Program version 1.0—IBM. *Page C/10, Aug. 18.*

Languages/Programming Tools

BUYERS' GUIDE

For most users, $100 can buy pascal compilers to fit the bill; simplicity, ease of use and adequate support are priorities with compiler and interpreter users. *Page 59, Jan 27.*
Alternative languages address special needs. *Page 70, Jan 27.*
COBOL compilers need compatibility; resident language, existing hardware and well-formated screens are among purchasing considerations. *Page 65, April 14.*
COBOL vs. C: No consensus, but plenty of strong options. *Page 65, April 14.*
Standards and speed are key factors in buying a C compiler. *Page 65, April 14.*
Package allows users to bring mainframe CICS applications down to PC. *Page 66, April 14.*
Screen generators that affect the "look and feel" of programs. *Page 59, Aug. 11.*
The secret to a great compiler? Speed, Speed and more speed. *Page 87, Nov. 24.*
There's more to perfect code than compilation. *Page 87, Nov. 24.*

FOCUS ON

Cambridge workshop to focus on advances in CASE technology. *Page 119, Feb. 17*
Programmers are slow to tap PC's benefits. *Page 119, Feb. 17.*
Computer-aided engineering tools come into their own. *Page 122, Feb. 17.*
Six months after 80386 PC debut, there is still no operating system on the scene. *Page 109, March 24.*
Will the '386s be a DOS toolmaker's dream come true? *Page 109, March 24.*
Temporary fixes on tap for '386 users awaiting '386 DOS. *Page 112, March 24.*
AI techniques in business applications are hot software topic. *Page 146, May 26.*
More AI programmers are turning to Prolog over the accepted LISP. *Page 146, May 26.*
A '386-based PC system running powerful LISP can be an attractive option. *Page 148, May 26.*
Interactive language is a good teaching tool. *Page 150, May 26.*
PC does more than write program code in development efforts. *Page 96, June 30.*
Quicker response time major benefit of mainframe software development on the PC. *Page 96, June 30.*
Users pleased with program development on the PC. *Page 96, June 30.*
Flexible language tools help developers build. *Page 95, July 28.*
More companies taking strategic advantage of menu-driven databases. *Page 95, July 28.*
Applications developers are wary of making programming tools for OS/2. *Page 103, Sept. 29.*
Programming tool can make or break a programmer's day. *Page 103, Sept. 29.*
COBOL programmers may have a head start in adapting to OS/2. *Page 104, Sept. 29.*
A cautious approach to OS/2 development may be best for now. *Page 110, Sept. 29.*
Retooling for OS/2 will raise developer cost. *Page 110, Sept. 29.*
Corporate world takes a shine to windows. *Page 169, Oct. 27.*
Microsoft's windows development kit needs a bit more explanation. *Page 170, Oct. 27.*
Actor gives windows programmers a hand. *Page 175, Oct. 27.*
Sales of language products are speaking louder than words. *Page 106, Dec. 15.*
Borland hopes to offer link between languages, applications software. *Page 107, Dec. 15.*

REVIEWS

Quicksilver dBASE III Plus Compiler—WordTech Systems. *Page 73, Jan. 6.*
Clipper dBASE III—Nantucket. *Page 59, Jan. 13.*
Magic-PC "The Un-Language"—AKER. *Page 85, March 3.*
Pascal-2—Oregon Software. *Page 97, April 7.*
Framework II Developer's Toolkit—Ashton-Tate. *Page 93, April 14.*
QuickBASIC 3.0—Microsoft. *Page 83, May 5.*
Turbo BASIC 1.0—Borland International. *Page 83, May 5.*
Actor—Whitewater Group. *Page 67, May 12.*
Screen Machine—MicroHelp. *Page 115, May 26.*
Screen Maker—Softscience. *Page 116, May 26.*
Clarion version 1.1—Barrington Systems. *Page 65, July 28.*
Brief version 2.0—Solution Systems. *Page 105, Aug. 4.*
Progress 4GL version 3.3J—Data Language. *Page 71, Aug. 11.*
Beyond.Bat—VM Personal Computing. *Page 79, Aug. 18.*
R:Base Program Interface version 2.0—Microrim. *Page 117, Oct. 13.*
R:Bridge System V version 2.01—Synchronicity Research Group. *Page 117, Oct. 13.*
Visual COBOL-85 version 1.0—mbp Software and Systems Technology. *Page 145, Nov. 3.*
AdaVantage, Version 2.0—Meridian Software Systems. *Page 122, Nov. 10.*
Norton On-Line Programmer's Guides—Peter Norton Computing. *Page 122, Nov. 10.*
QuickBASIC 4.0—Microsoft. *Page 103, Nov. 17.*
Turbo Pascal 4.0—Borland International. *Page 101, Nov. 24.*
C Optimizing Compiler, Version 5.0—Microsoft. *Page 107, Dec. 1.*
Quick C, Version 1.0—Microsoft. *Page 107, Dec 1.*

Local Area Networks

BUYERS' GUIDE

LAN users demand more features in database-management packages. *Page C/19, April 28.*
High-capacity file server more than fills the bill with local area network. *Page C/44, April 28.*
Assessing the pros and cons of 'one stop' LAN shopping. *Page C/17, June 16.*
Local area networks offer security features that let most LAN users rest easy. *Page C/24, June 16.*
Single-vendor local area networks. *Page C/24, June 16.*
Speaking about local area networks: Some helpful definitions for the user. *Page C/24, June 16.*
Training materials are available but some users develop their own. *Page C/26, June 16.*
Specialized PCs used as workstations can lower costs, enhance security. *Page C/27, June 16.*
Bridged LANs form more efficient networks. *Pagé C/29, Aug. 11.*

(Continued on Page S/13)

Buying seperate hardware, software can be smart, cost-effective approach. *Page C/13, Oct. 20.*
Alternatives to turnkey networking: Write-it-yourself software strategies. *Page C/14, Oct. 20.*
Look for total solution, support when choosing file server. *Page C/17, Dec. 15.*
Microsoft in position to shape future hardware. *Page C/22, Dec. 15.*
File-server performance depends on disk I/O. *Page C/23, Dec. 15.*

FOCUS ON

Tape servers: A new approach to data backup. *Page C/19, Jan. 13.*
Compaq aims '386-based at LAN market. *Page C/22, Jan. 13.*
Use of 3270 gateway for large LANs criticized. *Page C/26, Jan. 13.*
IBM protocol gives users added choice in LAN-mainframe links. *Page C/27, Jan. 13.*
For McKesson, the prescription is a gateway. *Page C/14, Feb. 17.*
Insurance firm claims flexible LAN policy. *Page C/16, Feb. 17.*
Firm uses LANs to move into database support. *Page C/18, Feb. 17.*
More flexible token-ring links are offered. *Page C/19, March 17.*
LAN meets mainframe in the world of finance. *Page C/22, Feb. 17.*
Twin-city PC LAN linked by one mainframe. *Page C/24, Feb. 17.*
Intelligent wire centers bolster LAN management. *Page C/22, March 17.*
New choice for linking networks: Remote bridges using T1, X.25 links. *Page C/23, March 17.*
Standards drawn to assist routing between networks. *Page C/24, March 17.*
Twisted-pair LANs have their perils, benefits. *Page C/21, May 12.*
StarLAN chosen to link hutton branches. *Page C/24, May 12.*
New LAN-to-mini connections give the best of two worlds. *Page C/25, July 21.*
Few links for PS/2 and system /3X available. *Page C/28, July 21.*
LAN workstations give control in transition. *Page C/29, July 21.*
Fault-tolerant LANs guard against malfunction, data loss. *Page C/26, Sept. 15.*

REVIEWS

3+ Local Area Network—3Com. *Page C/28, Feb. 17.*
Alliance ZSL—Avatar Technologies, *Page C/15, July 28.*
Waterloo Port 2.40—Waterloo Microsystems. *Page C/12, Aug. 4.*
TangentShare—Tangent Technologies. *Page C/11, Sept. 15.*
Invisible Network—Invisible Software. *Page C/12, Oct. 27.*

Maintenance/Leasing

BUYERS' GUIDE

Searching for third-party maintenance service that is quick and cost-efficient. *Page 65, May 5.*
Role of third-party maintenance companies changes with market. *Page 68, May 5.*
Maintenance companies are adapting to growing market and user demand. *Page 72, May 5.*

FOCUS ON

No matter what, PC downtime is money lost. *Page 105, Jan. 27.*
PC maintenance firm offers plan that boasts the best of both worlds. *Page 105, Jan. 27.*
Maneuvering the tightrope between leasing and buying. *Page 103, April 14.*
Necessity, not tax benefit, provides main impetus for leasing contracts. *Page 103, April 14.*
The first struggle? Getting users into the classroom, willing to learn. *Page 82, July 28.*
Third-party-maintenance movement gaining strength, offers versatility. *Page 89, July 28.*
Radio Shack: A service of a different color. *Page 90, July 28.*
If passed, H.R. 1743 Anti-Lending Bill will stop software rental. *Page 131, Sept. 1.*
Software rental saves unnecessary purchases, alternative to buying blind. *Page 131, Sept. 1.*
Software publishers association supports bill outlawing computer software rentals. *Page 133, Sept. 1.*
Maintenance management software means fewer emergencies. *Page 139, Oct. 6.*
Polaroid masters 13-building site by using maintenance software. *Page 139, Oct. 6.*
IBM's competitive pricing for PS/2 service, support has rivals scrambling. *Page 162, Dec. 8.*
Third-party firms focus energies on PS/2 service. *Page 162, Dec. 8.*
Support for PS/2 clones is likely to resemble that for PC brethren. *Page 166, Dec. 8.*

Micro-Mini/Mainframe Links

BUYERS' GUIDE

A file transfer down to single keystroke. *Page C/13, Jan. 20.*
MIS turns to PCs to help thin out application backlog. *Page C/13, Jan. 20.*
Definitions of terms for micro-mainframe link software charts. *Page C/16, Jan. 20.*
Virtual-disk links offer more than just DOS interface. *Page C/41, March 31.*
Virtual disk is good risk for insurer's news net. *Page C/46, March 31.*
IRMALAN products establish DCA as leader in LAN mainframe gateways. *Page C/27, June 9.*
Simple coaxial connections help break down barriers between Mac, IBM worlds. *Page C/27, June 9.*
Micro-to-mainframe links end drudgery of data extraction. *Page C/13, Sept. 8.*
Keystroke-robot eases micro-to-mainframe data extraction. *Page C/15, Sept. 8.*
Linking options lets users build sophisticated PC-VAX systems. *Page C/13, Dec. 8.*
One alternative to a micro file server is a souped-up VAX or minicomputer. *Page C/25, Dec. 8.*

FOCUS ON

Hardware links becoming more standardized. *Page C/26, Feb. 10.*
Software key to computing-control issues. *Page C/32, Feb. 10.*
Entrepeneurs at work filling void in link market. *Page C/35, Feb. 10.*
Minis provide PC and network integration. *Page C/21, April 14.*
Mini-PC connectivity solutions range from simple to complex and powerful. *Page C/22, April 14.*
Trying to link PC, mini can be frustrating. *Page C/24, April 14.*
Micro-to mainframe connections give the best of two worlds. *Page C/34, July 14.*
On-line phone registration a first at Ohio State. *Page C/36, July 14.*
High-speed transmission links yield efficient and economical data transfer. *Page C/17, Oct. 13.*
IBM offers many controller options for high-speed PC-mainframe links. *Page C/22, Oct. 13.*
Independent application nets 50 percent faster response time, low cost. *Page C/22, Oct. 13.*
Implementing LU 6.2 means a change of habit. *Page C/28, Nov. 10.*
Vendors look at IBM's ECF connectivity link as a 'stopgap' measure. *Page C/31, Nov. 10.*
Third-party developers offer minicomputer field micro-mainframe links. *Page C/34, Nov. 10.*

REVIEWS

IRMALAN DFT Gatewy—Digital Communications Associates. *Page C/29, Jan. 27.*
IRMALAN SNA Workstation—Digital Communications Associates. *Page C/28, Jan. 27.*
Gateway PC—Software Corp. Of America. *Page C/30, Feb. 17.*
AdaptSNA LU 6.2 APPC—Network Software Associates. *Page C/26, Feb. 24.*
Emerald DOS 80-8000—Emerald Systems. *Page C/29, Feb. 24.*
DEC LU 6.2— Digital Equipment. *Page C/1, March 3.*
SmarTerm 240—Persoft. *Page C/27, March 10.*
INS SDLC Gateway—Integrated Systems. *Page C/29, March 17.*
CXI PCOX/Gateway-16—CXI. *Page C/48, March 31.*
Reflection II Plus—Walker Richer & Quinn. *Page C/49, March 31.*
PC Xpander—Xyplex. *Page C/13, May 26.*

Modems

BUYERS' GUIDE

Superfast modems race ahead of phone lines, software, other links. *Page C/13, Feb. 10.*
Feature-packed versus plain-vanilla modems; manufacturers compete in growing market with distinguishing features and low prices. *Page 81, April 21.*
Will high-speed modems run off with the market? *Page 81, April 21.*
The modem arena is increasingly becoming a commodities market. *Page 82, April 21.*
For modems, smaller is better—and here are some of the smallest. *Page 83, April 21.*
Error-correction protocol standard will streamline modem communication. *Page C/13, June 30.*
Users, manufacturers dispute modem differences. *Page C/13, June 30.*
Synchronous modems go upscale with software control. *Page C/15, Sept. 1.*
Developers take tips from different modem techniques. *Page C/16, Sept. 1.*

FOCUS ON

Dual-speed protocol could lengthen life of slower modem. *Page 113, Jan. 20.*
Telephone calls to Mars and other new uses for your 300-bps modems. *Page 113, Jan. 20.*
300-bps modems going the way of Tyrannosaurus Rex. *Page 113, Jan. 20.*
1,200-bps modems: Too slow for long run? *Page 114, Jan. 20.*
Modem pools bring major cost savings, centralization—"Astronomical Economies." *Page C/13, March 10.*
Transparent access high on which list of modem users—users seek software improvements. *Page C/13, March 10.*
Various products help forge public phone links. *Page C/15, March 10.*
Modem-managing software centralizes control. *Page C/21, April 21.*
High-speed dialup modems ask: Can we talk? *Page C/23, April 21.*
Performance of high-speed modems affected by many factors, tests show. *Page C/15, May 5.*
Speed is relative term when testing modems. *Page C/18, May 5.*
Debate continues over the need for lower-speed modems in corporations. *Page 141, May 26.*
Pricing, added features keep 1,200-bps models alive in the market. *Page 142, May 26.*

(Continued on Page S/14)

PC
Contents™

Improve Your Vision.

You've found it! Here's *the* way to save on reading time while building your library of strategic intelligence: *PC Contents* supplies the actual contents pages from the top 28 PC industry journals every month.

Just think of it. In *minutes* you'll uncover especially useful articles and specific reports that prove invaluable to your company's direction, and to your career. For details, simply drop your business card into an envelope and mail it to us.

PC Contents
Post Office Box 4050, Irvine, CA 92716

U.S. Library of Congress ISSN 0896-4483

1987 Index

(Continued from Page S/13)

PC Fax boards likely to have bright future. *Page 144, May 26.*
Leased lines can be faster and less costly than dial up. *Page C/27, July 28.*
Digital transmission better-suited for data. *Page C/30, July 28.*
V.32 standard in high-speed modems gains acceptance. *Page C/25, Aug. 18.*
Developers walk a fine telephone line keeping V.32 modems up to speed. *Page C/27, Aug. 18.*
Manufacturers championing Trellis coding for speedier data transmission. *Page C/24, Oct. 13.*
Modem makers add MNP level 5 support to boost throughput. *Page C/28, Oct. 13.*
"Secure" modems aimed at stemming PC fraud. *Page C/27, Nov. 24.*
As signal-processing technology advances, modem prices dip. *Page C/30, Dec. 15.*
Effect of devalued dollar on price of high-speed modems is still unclear. *Page C/32, Dec. 15.*

REVIEWS

Pocket Modem—Migent. *Page 83, March 31.*
TrailBlazer—Telebit. *Page C/13, June 16.*

Monitors

BUYERS' GUIDE

Auto-scanning monitors' range eases worry of obsolescence; flexibility in supporting graphics cards attracts buyers more than technical benefits of auto-scanning. *Page 67, March 3.*
Auto-scanning monitors: the next standard? *Page 70, March 3.*
Standard or variable scan? Big choice for buyers. *Page 67, Aug. 25.*
Users look for brightness, color, graphics. *Page 67, Aug. 25.*
Buyers bewildered by variations in color monitors. *Page 51, Dec. 22/29.*

FOCUS ON

Quality of monitor affects productivity, comfort of workers. *Page 99, Jan. 6.*
Overhead fluorescent lighting can be hard on monitor users' eyes. *Page 102, Jan. 6.*
Resale market experiences higher volumes. *Page 90, Jan. 27.*
Demand grows for higher resolution, color. *Page 84, Feb. 3.*
Sigma says upcoming monitor system offers highest PC resolution. *Page 88, Feb. 3.*
Ergonomic factors are low on monitor buyer's list of considerations. *Page 107, Feb. 3.*
Full-page displays ease desktop-publishing users' frustrations. *Page 135, April 21.*
Commonly used terms relating to monitors used for page display. *Page 137, April 21.*
Color monitors won't fly without high-res color laser printers. *Page 139, April 21.*
PS/2 VGAs fall short, requiring additional hardware investments. *Page 142, April 21.*
Horizontal or vertical display? Experts on large-screen formats offer views. *Page 144, April 21.*
Apple's Macintosh II has turned graphics manufacturers' heads. *Page 146, April 21.*
Anticipating demands, monitors for PS/2 moving beyond IBM standards. *Page 87, June 30.*
Still debate on PS/2 compatibility of PC monitors. *Page 87, June 30.*
Third parties vie for piece of PS/2 display market. *Page 89, June 30.*
Color outshining, not eliminating, monochrome monitors. *Page 97, Sept. 22.*
Not easy to take bite out of Apple's piece of desktop-publishing pie. *Page 97, Sept. 22.*
Cost is the crucial consideration when choosing a monitor. *Page 99, Sept. 22.*
Desktop publishing marketplace seen keeping monochrome monitors alive. *Page 99, Sept. 22.*
PS/2 monitors are getting stiff competition. *Page 153, Oct. 27.*
Too soon to standardize on new monitors. *Page 155, Oct. 27.*
IBM's VGA standard puts some color into used-monitors market. *Page 158, Oct. 27.*

REVIEWS

Sony CPD-1302 Multiscan—Sony Corp. *Page 75, Jan. 27.*
Ultrascan 4375M—Thomson Consumer Products. *Page 75, Jan. 27.*
LaserView Display System—Sigma Designs. *Page 89, Feb. 17.*
Cono Vision 2800—Conographic Corp. *Page 79, May 19.*
Vista 1600—Cornerstone Technology. *Page 65, July 28.*
Multisync Plus—NEC Home Electronics. *Page 69, Dec. 22/29.*
Multisync XL—NEC Home Electronics. *Page 69, Dec. 22/29.*

Multiuser Systems

BUYERS' GUIDE

Low-cost systems let departments share data. *Page 67, Jan. 20.*
Benefits of connecting multiuser systems to larger networks. *Page 68, Jan 20.*
80386-based PCs fueling renewed interest in multiuser operating systems. *Page C/13, Oct. 13.*
Port expander can make or break multiuser system. *Page C/14, Dec. 1.*
No-frills multiuser systems offer cost savings, applications. *Page C/18, Dec. 1.*

FOCUS ON

Connecting PCs and multiuser systems can eliminate manual tasks, cut costs. *Page C/15, Feb. 24.*
Unix-based multiuser systems offer benefits as LAN file server. *Page C/15, Feb. 24.*
Multiuser operating system is finding a home in the office. *Page C/17, Feb. 24.*
Xenix-based system helps optometrist provide better service for customers. *Page C/17, Feb. 24.*
IBM's OS/2 isn't the only multiuser operating system. *Page C/13, April 14.*
Pick operating system gives users easy access to centralized data banks. *Page C/13, April 14.*
Theos 286-V offers high degree of flexibility. *Page C/15, April 14.*
DRI offers DOS-like multitasking system. *Page C/44, June 16.*
Multiuser systems aid manufacturing industry. *Page C/46, June 16.*
Flexibility of Novell's Netware suited multiuser system dealers' special. *Page C/36, Sept. 1.*
LAN operating systems find new role in PC-based multiuser environments. *Page C/35. Sept. 1.*
LAN operating systems find niche with high-end multiprocessor units. *Page C/37, Sept. 1.*

SUPPLEMENT

Despite drawbacks, multiuser software represents wave of the future. *Page S/27, April 21.*

On-Line Databases

BUYERS' GUIDE

Cutting down on legwork in the quest for thorough, up-to-date information. *Page 53, June 30.*

FOCUS ON

Free communications program is helpful, CompuServe users say. *Page 112, March 3.*
Software packages cut on-line service costs. *Page 112, March 3.*
Many firms find on-line databases inadequate competitive intelligence. *Page 129, May 5.*
On-line services help firm research competitors' activities. *Page 129, May 5.*
Corporate users doing their own searches with on-line data services. *Page 113, Sept. 22.*
Difficult databases still librarians' domain. *Page 113, Sept. 22.*
Access problems put limits on value of on-line databases. *Page 147, Nov. 17.*
Increasing demand could make on-line databases easier to use. *Page 147, Nov. 17.*

Operating Systems/Environments

BUYERS' GUIDE

Businesses attracted by Unix's unique advantages; some firms find multitasking, multiuser Unix attractive, but they lament the scarcity of applications written for it. *Page 71, April 28.*
DOS extenders smash the 640K-byte memory barrier to bits? *Page 69, Sept. 8.*

FOCUS ON

Operating environments' fate tied to '386. *Page 119, Jan. 20.*
Complex alliances mark creation of DOS/Unix systems. *Page 109, March 10.*
'386 PCs may allow DOS and Unix systems to operate simultaneously. *Page 109, March 10.*
Software bridge links DOS and Unix systems. *Page 110, March 10.*
Some experts say OS/2 (when it finally gets here) will disappoint multitasking-hungry users. *Page 99, May 12.*
Unix, newer environments fill OS/2 gap. *Page 99, May 12.*
OS/2 is more complicated but has more potential than users expect. *Page 97, July 14.*
OS/2 will make life easier—but not now. *Page 98, July 14.*
Look at hardware and networks before leaping into OS/2 environment. *Page 100, July 14.*
Apple, Microsoft seen as top two contenders in software leader battle. *Page 101, Aug. 25.*
Microsoft strategy aims to unify operation, interfaces among PCs. *Page 101, Aug. 25.*
Official standard making progress, but it is slow going. *Page 102, Aug. 25.*
Three ways of looking at an operating system. *Page 102, Aug. 25.*
Are users ready for new operating systems? *Page 128, Nov. 24.*

REVIEWS

DOS 3.x—Microsoft. *Page 84, April 28.*
DESQview 2.0—Quarterdeck Office Systems. *Page 77, June 30.*
PC-MOS 386—The Software Link. *Page 87, Sept. 8.*
Concurrent DOS 386—Digital Research. *Page 85, Sept. 22.*
Microsoft Windows/386—Microsoft. *Page 115, Oct. 13.*
Still River Shell—Bill White. *Page 148, Nov. 3.*

Optical Storage

REVIEWS

FTD-200 Laser Disk Subsystems—Franklin Telecommunications. *Page 121, April 21.*
LaserBank 400—Micro Design International. *Page 121, April 21.*
Tallgrass LightFile—Tallgrass Technologies Corp. *Page 91, June 9.*

PBX/Multiplexers

BUYERS' GUIDE

Data PBXs offer modem-bound PCs LAN alternative. *Page C/12, Sept. 29.*
Unfashionable data PBXs are ideal for wide area networks. *Page C/12, Sept. 29.*

FOCUS ON

LANs, digital PBXs share corporate spotlight. *Page C/15, March 17.*
PBXs becoming practical alternative to LANs. *Page C/16, March 17.*
Data pbx offers cost-effective link for PCs and hosts. *Page C/1, June 30.*
Academic environments pose unique problems to managers. *Page C/30, Aug. 18.*

REVIEWS

Watson VBX—Natural MicroSystems. *Page C/13, June 16.*

PC Accessories

BUYERS' GUIDE

Accessories range from the necessities to the niceties. *Page 65, May 5.*
Listening to the sound of silence in offices. *Page 69, Sept 8.*

REVIEWS

Power Meter—Database Group. *Page 71, May 12.*
FastWire II—Rupp Bros. *Page 87, Sept. 8.*

Peripheral Sharing

BUYERS' GUIDE

Wide variety of devices are available for peripheral sharing. *Page C/16, July 28.*
Users ease stress of use in sharing devices. *Page C/22, July 28.*
Why buy a LAN if all you need is to share printers, modems? *Page C/15, Sept. 22.*

FOCUS ON

Printer sharing on the increase as user concern. *Page C/21, Jan. 27.*
Printer-sharing solutions come in a variety of devices and range of prices. *Page C/21, Jan. 27.*
Intelligent switches are printer-sharing plus. *Page C/25, Jan. 27.*
Pig-genetics firm sees printer-share answer in fourth switch try. *Page C/25, Jan. 27.*
Modem sharing spurs interest as complexity grows. *Page C/15, March 3.*
Printer sharing gives users alternative to LAN. *Page C/23, May 5.*
Devices aid firms using many paper types. *Page C/24, May 5.*
Industry experts warn that sharing printers can be difficult, complex. *Page C/24, May 6.*
Desktop publishing meets the world of LANs. *Page C/28, June 9.*
Spooling is one way to ease pressure on high-end printers, PCs. *Page C/28, June 9.*
Resource sharing: Low-cost LAN alternative. *Page C/16, July 7.*
Peripheral-sharing software attractive option to hardware. *Page C/33, Oct. 6.*

(Continued on Page S/18)

1987 Index

(Continued from Page S/14)

Peripheral-sharing software connects laptops to LANs. *Page C/34. Oct. 6.*
Distributed sharing devices offer alternative to centralized approach. *Page C/41, Nov. 10.*
Printer-sharing devices provide for sophisticated management capabilities. *Page C/43, Nov. 10.*
The art and technology of peripheral sharing: how the devices work. *Page C/44, Nov. 10.*
Peripheral-sharing devices: low-cost LAN alternatives. *Page C/32, Dec. 8.*

REVIEWS
EasyPRINT—Server Technology. *Page C/42, Jan. 20.*
NetCommander NC-16—Digital Products. *Page C/32, March 24.*
Lasernet PSU-82C—Western Telematic. *Page C/13, Sept. 1.*
PS Print—Tangent Technologies, Ltd. *Page C/11, Sept. 15.*
Microfazer VI—Quadram. *Page C/11, Oct. 20.*

Plotters/Graphic Output Devices

BUYERS' GUIDE
Options are few in the market for two-pen plotters; advent of multipen machines, quality printers puts two-pens low on the plotter totem pole. *Page 49, March 10.*
New board is low-cost plotter alternative. *Page 69, March 10.*

FOCUS ON
Microcomputers are now being used for producing business-quality slides. *Page 75, Feb. 3.*
Software allows PC user to telecommunicate to slide-making services. *Page 75, Feb. 3.*
Large-format plotters now accepted by PC marketplace. *Page 123, April 14.*
Large-format plotters offer an alternative to expensive systems. *Page 124, April 14.*
PC plotters diagram myriad solutions for CAD applications. *Page 124, April 14.*
A beginner's guide to dimensions and sizes in drawing terminology. *Page 129, April 14.*
No hard and fast rules when choosing between a plotter and laser printer. *Page 107, June 9.*
Slides, transparencies offer viable presentation options. *Page 137, Aug. 4.*
Utilities allow printers to emulate plotters. *Page 107, June 9.*
Many film recorders lack the ticket for the PS/2 bus. *Page 137, Aug. 4.*
Developing laser printers for engineering drawings is not as simple as ABC. *Page 138, Nov. 17.*
Will color laser printers rival pen plotters? *Page 138, Nov. 17.*
In a nutshell: basics of color-raster printing vs. color-pen plotting. *Page 139, Nov. 17.*
Low-cost alternatives to laser printers are not very easy to find. *Page 139, Nov. 17.*
Users keen on color lasers, if price is right. *Page 142, Nov. 17.*

SUPPLEMENT
Dramatic advances expected in the near future. *Page S/35, July 28.*
Graphical output devices: Moving toward a standard? *Page S/35, July 28.*
PS/2, OS/2 may join low-priced graphics and high performance. *Page S/36, July 28.*
The year of color? *Page S/27, Sept. 1.*

Portable/Lap-Top Computers

BUYERS' GUIDE
Many choosing portables to take place of desktops. *Page 73, Feb. 17*
Battery option rescues users of Toshiba laptop. *Page 78, Feb. 17.*
80286 Portables: Something for everyone. *Page 69, Sept. 15.*

FOCUS ON
80386-chip technology may have a future in portable lap-top market. *Page 101, Jan. 27.*
Processing speed is not most important feature for users of portables. *Page 101, Jan. 27.*
Lap-top users needn't wait for full standards. *Page 99, March 31.*
Many barriers to creating lap-top peripherals. *Page 99, March 31.*
New hard drives help lap-tops perform better. *Page 100, March 31.*
Power problems are the price of portability. *Page 100, March 31.*
External peripherals skirt compatibility issues. *Page 102, March 31.*
Microchip-based software provides lap-tops with increased portability. *Page 102, March 31.*
Is this the year of the lap-top computer? *Page 99, June 9.*
New products show evidence of strong interest in lap-top market. *Page 99, June 9.*
Lap-top market adjusting to trade sanctions. *Page 100, June 9.*
80386-based portables set to flood market. *Page 103, July 21.*

(Continued on Page S/19)

FAX
DATA COLLECTION
3270
VGA
EGA
NETWORK
MEMORY
VOICE
FUTURE?

No other portable can say this much for itself

Another laptop might solve your problems now. But what about later, when you may need to add a modem? Or communicate with mainframes? Or expand into other areas?

Snap 1+1 by Datavue has a built-in expansion slot that lets you add to your capabilities any time. With any IBM-compatible half card.

Voice, fax, VGA, EGA, networking– they're all available to you with this versatile laptop. It even lets you take advantage of advanced technology that's not yet off the drawing board.

And expandability is just the beginning. The Snap 1+1's ingenious design lets you separate the main unit from the disk unit. So you can download information into a five-pound diskless PC, and take it straight into your meeting. Or anywhere else.

The full-featured Snap 1 + 1 operates at 10 MHz. It's fully IBM compatible. And it's expandable up to 1.6M. So choose the laptop with unlimited possibilities: the Snap 1+1 from Datavue. To find out more, contact us at One Meca Way, Norcross, Georgia 30093.
(404) 564-5555.

SNAP 1+1™
BY DATAVUE

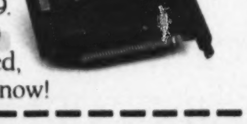
SPECIAL BONUS: $199 HALF CARD
Purchase your new 10 MHz Snap 1+1 between now and March 31, 1988 and you can get one of the valuable half cards listed below for only $199. (Retail value up to $499.) This special offer is limited, so buy now and expand now!

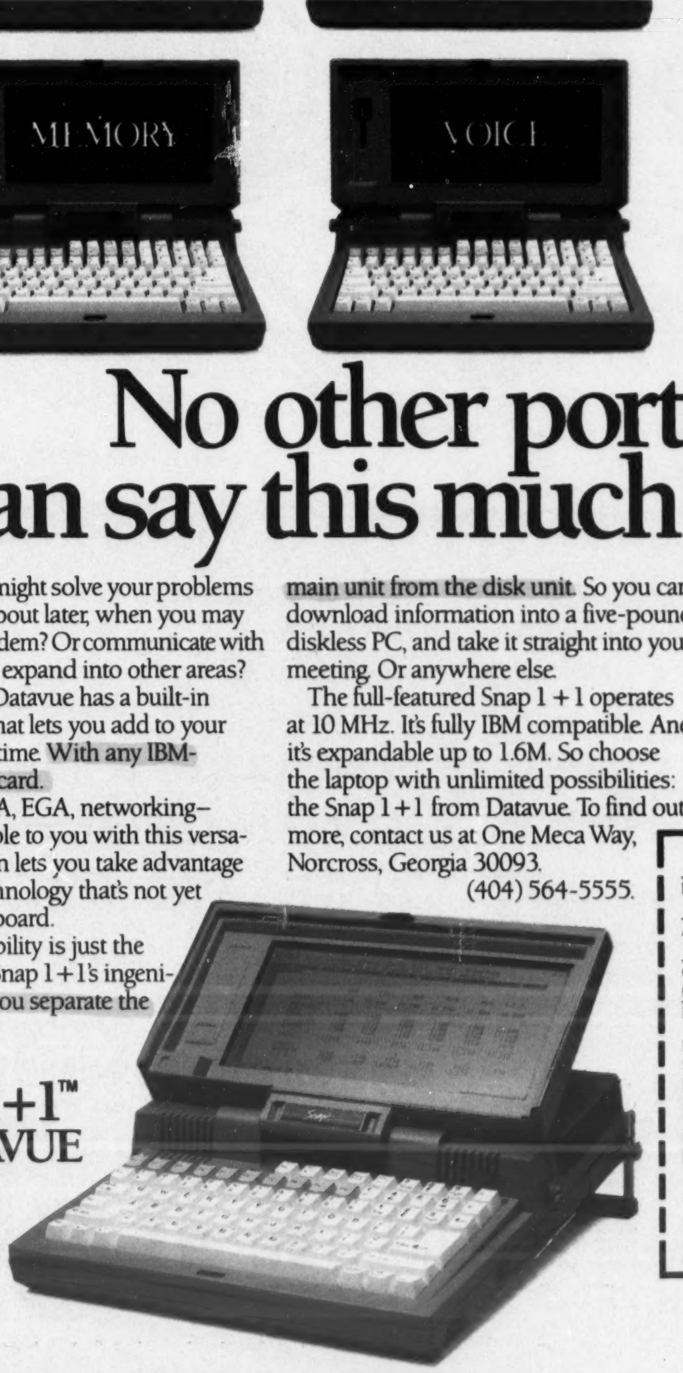
Name
Address
City State Zip
( )
Phone Computer Serial No.

I just bought my new Snap 1+1 computer, and I'd like to take advantage of your $199 Bonus Half Card offer. Please send me the following half card (check one).
☐ Datavue Fax Board ☐ MainLink II (3270 terminal emulation board)
☐ UltraVGA Graphics Adapter ☐ QuadEGA ProSync
Payment by:
☐ Visa ☐ MasterCard ☐ American Express ☐ Certified Check

Credit Card Number________ Expiration Date ________
Please return this coupon with completed warranty card and credit card information or certified check for $199 plus $10 for shipping and handling to: Datavue Bonus Offer, One Meca Way, Norcross, GA 30093. Allow 4 to 6 weeks for delivery.

DATAVUE™
An Intelligent Systems Company





1987 Index

(Continued from Page S/18)

High-powered portables are '386 alternatives. Page 105, July 21.

Add-in card manufacturers debate need for setting a lap-top standard. *Page 119, Oct. 20.*

Third parties meeting demands of growing lap-top market. *Page 119, Oct. 20.*

Demand for data-transfer software spurs growth of lap-top market. *Page 125, Oct. 20.*

Future looks bright for early entrants among lap-top manufacturers. *Page 130, Oct. 20.*

The 80386 lap-top: just how desirable is it? *Page 137, Dec. 1.*

Despite added capabilities, 80386 portables still don't measure up. *Page 138, Dec. 1.*

Some users are decidedly ho-hum about 80386 lap-tops. *Page 140, Dec. 1.*

SUPPLEMENT

Screen technology trims portables down to size. *Page S/19, May 12.*

Portable users join long list of dreamers wanting flat display. *Page S/21, May 12.*

IBM's downsized and out in portable market; doesn't measure up to Compaq. *Page S/22, May 12.*

Cutting the power cord. *Page S/27, May 12.*

Chip technology key component to success of lap-top machine. *Page S/30, May 12.*

Compaq says time is not yet right for fully functional battery lap-top. *Page S/34, May 12.*

REVIEWS

NEC Multispeed—NEC Home Electronics. *Page 67, Feb. 10.*

Wang Lap-Top PC—Wang Computer. *Page 93, March 24.*

GRIDLITE—Grid System Corp., *Page 81. March 31.*

Compaq Portable II-Compaq Computer. *Page 95, April 7.*

Datavue Spark—Datavue. *Page 91, April 14.*

Keystyle-80—Datavue. *Page 91, April 14.*

Datavue's Snap 1+1—Datavue. *Page 85, June 9.*

Zenith Z-183—Zenith Data Systems. *Page 81, July 14.*

The PC Convertible Model 3—IBM. *Page 87, Aug. 25.*

The Toshiba T-1000—Toshiba America. *Page 101, Sept. 15.*

The Sharp 7200 Series—Sharp Electronics. *Page 103, Sept. 15.*

The Compaq Portable—Compaq Computer Corp. *Page 113, Oct. 27.*

HP Portables Vectra CS—Hewlett-Packard. *Page 119, Oct. 27.*

Sharp PC-4501—Sharp Electronics. *Page 119, Oct. 27.*

Dynamac—Dynamac Computer Products. *Page 108, Nov. 17.*

Tandy 1400 LT—Tandy. *Page 110, Dec. 1.*

Printers

BUYERS' GUIDE

Daisy-wheel printers offer high-quality print, are best suited for low-volume applications. *Page 73, Jan. 6.*

Printer market still has demand for daisy wheels. *Page 79, Jan. 6.*

Laser printers moving clearly toward the top spot in the printer market. *Page 63, July 21.*

Laser printer sales reflect their capabilities. *Page 63, July 21.*

24 pins help users skate to higher resolution. *Page 85, Oct. 27.*

Will 27 be the number of the future? *Page 85, Oct. 27.*

24-pin printers leave their mark on the market. *Page 86, Oct. 27.*

FOCUS ON

Shared use of laser printers raises questions. *Page 93, Feb. 10.*

Vendors are examining the market for printers as multiuser resources. *Page 93, Feb. 10.*

Paper handling is key for high-output role. *Page 100, Feb. 10.*

Dot-matrix printers hold fort against lasers. *Page 102, Feb. 10.*

Users are bullish on sharing their laser printers. *Page 103, Feb. 10.*

Daisy wheels are seen losing ground to 24-pin dot-matrix machines. *Page 85, March 10.*

Industry can accommodate both lasers and 24-pin printers, say contenders. *Page 85, March 10.*

24-pin printers save lower-end users money. *Page 88, March 10.*

Software dearth plagues 24-pin market. *Page 93, March 10.*

Developers offer variety of security schemes. *Page 104, March 10.*

Users also have ways to better protect their sensitive financial data. *Page 104, March 10.*

New breed of desktop laser printers are first to transcend copier heritage. *Page 107, April 7.*

Ricoh engine meets the demand for smaller, lighter, more reliable printers. *Page 107, April 7.*

Laser printers have come a long way from photocopy technology. *Page 108, April 7.*

Activity is seen heating up in the page-printer arena. *Page 113, April 7.*

Third-party products are now emerging for page printers. *Page 113, April 7.*

Page-description language sacrifices speed but promotes logical standard. *Page 105, May 19.*

IBM attacks problem of laser-printer speed with creative design. *Page 108, May 19.*

IBM makes a strategic move with Pageprinter. *Page 108, May 19.*

Not all analysts are convinced that 24-pin printer technology is the best. *Page 111, May 19.*

Proprinter additions are helpful, not remarkable. *Page 111, May 19.*

IBM update of negative-producing machine may find its share of takers. *Page 112, May 19.*

IBM Quietwriter III is competitive product. *Page 117, May 19.*

Printer rivalry of Apple, IBM goes both ways. *Page 119, May 19.*

Laser printers take on publishing; threatened typesetters battle back. *Page 123, June 23.*

1,000-dot-per-inch laser printers: They're pricey and they're high-quality. *Page 125, June 23.*

Laser-printer advance could spell change in printing standard for firms. *Page 130, June 23.*

Dot-matrix makers specialize, aim for niche market. *Page 93, Aug. 11.*

Versatility, low prices keep dot-matrix printers popular. *Page 93, Aug. 11.*

First color laser printer is expected to debut for engineers by end of year. *Page 97, Aug. 11.*

Dot-matrix printer prices: Lower than ever. *Page 98, Aug. 11.*

Dot-matrix makers are aiming high and low with broad range of machines. *Page 101, Aug. 11.*

Add-on products bring new life to standard dot-matrix printer market. *Page 102, Aug. 11.*

Challengers seek to steal PostScript's thunder. *Page 142, Dec. 8.*

Interpress, DDL give PostScript competition. *Page 149, Dec. 8.*

PostScript inspires passionate pros and cons. *Page 150, Dec. 8.*

SUPPLEMENT

Assessing printer speed. *Page S/5, Sept. 1.*

Print quality tops list of user needs. *Page S/9, Sept. 1.*

Electrostatic printers provide high-volume alternative to lasers. *Page S/10, Sept. 1.*

Impact printers best for envelopes, forms, mailing labels. *Page S/10, Sept. 1.*

Reliable printer? Ask the people who own them. *Page S/11, Sept. 1.*

Less noise, more choices. *Page S/13, Sept. 1.*

User demand for less noise is a challenge to printer manufacturers. *Page S/15, Sept. 1.*

Printer prices plummet. *Page S/17, Sept. 1.*

Add-ins for printer can help companies protect their initial investment. *Page S/18, Sept. 1.*

The year of color? *Page S/27, Sept. 1.*

REVIEWS

Epson GQ-3500 Laser Printer—Epson. *Page 91, Feb. 17.*

Ricoh PC laser 6000—Ricoh. *Page 87, March 3.*

QMS PS 800+—QMS. *Page 77, March 17.*

NEC Pinwriter P9XL—NEC Home Electronics. *Page 99, April 7.*

LaserPro Express Model 830—Office Automation Systems. *Page 101, April 7.*

HP Laser Jet Series—Hewlett-Packard Co. *Page 77, May 19.*

ALPS ALQ 224—ALPS America. *Page 82, May 19.*

Okidata Laserline 6—Okidata. *Page 87, June 9.*

NEC SilentWriter LC-890—NEC Information Systems. *Page 65, July 28.*

Toshiba PageLaser 12—Toshiba. *Page 87, Sept. 22.*

CrystalPrint VIII—Data Technology. *Page 123, Oct. 27.*

Diconix 300W—Diconix. *Page 71, Dec. 22/29.*

NEC P2200—NEC Information Systems. *Page 71, Dec. 22/29.*

Project-Management Systems

BUYERS' GUIDE

For job-estimating tasks, PC is replacing pad and pencil. *Page 61, May 19.*

PC-based packages make project management accessible to novices. *Page 61, May 19.*

Compendium of selected manufacturers of project-management software. *Page 71, May 19.*

Managers get a needed boost with project linking. *Page 55, Dec. 15.*

Buying considerations vary for project software. *Page 58, Dec. 15.*

FOCUS ON

"Customize!" is the latest demand from users. *Page 130, Jan. 6.*

Firms scrambling to fulfill users' demands for power, ease of use. *Page 131, Jan. 6.*

Try-before-you-buy project-management shopping is by no means easy. *Page 103, Feb. 24.*

Users often migrate from manual methods. *Page 103, Feb. 24.*

Training eases problems with project software. *Page 105, Feb. 24.*

Harvard project-manager upgrade combines advanced, original features. *Page 107, March 31.*

No clear leader in splintered project-software market. *Page 107, March 31.*

Project-management software for PCs finds widest application in engineering. *Page 156, April 21.*

Large projects a happy blending of PC, mini, mainframe. *Page 158, April 21.*

Consulting firm uses PCs to steer SDI development. *Page 160, April 21.*

Project planners get help on the PC level. *Page 145, June 2.*

Software vendors optimistic about micro-based project management. *Page 145, June 2.*

Software makers give linking aid to project managers. *Page 146, June 2.*

Education is key to project-management software acceptance. *Page 118, Sept. 8.*

Novel uses of project-management software suggest broadening appeal. *Page 120, Sept. 8.*

Project-software training a must, vendors say. *Page 121, Sept. 8.*

Success of project-management software depends on customization. *Page 130, Oct. 6.*

Wanted by users: flexible, accessible management software. *Page 131, Oct. 6.*

Vendors emphasize reporting and graphics. *Page 137, Oct. 6.*

REVIEWS

Harvard Total Project Manager II—Software Publishing. *Page 89, March 24.*

Power Meter—The Database Group. *Page 89, March 24.*

Instaplan—Instaplan. *Page 75, May 19.*

Project:Vision—Inmax. *Page 90, Sept. 1.*

Microsoft Project 4.0—Microsoft. *Page 115, Oct. 27.*

SuperProject Expert—Computer Associates International. *Page 110, Dec. 1.*

Techover Plus—Technology Futures. *Page 78, Dec. 15.*

Power Protection/Suppressors

BUYERS' GUIDE

Power protection: Users say they're worth the bucks. *Page 67, June 23.*

FOCUS ON

Modems open up window of PC vulnerability. *Page 115, March 10.*

Grounding is essential to modem protection. *Page 116, March 10.*

Cost vs. performance is key to off-line, online power-protection devices. *Page 129, July 14.*

Users gain from protection competition. *Page 129, July 14.*

Summer is the season for power protection. *Page 140, Aug. 4.*

When lightning strikes the power protection plant. *Page 140, Aug. 4.*

Utilities sell, lease protection devices to save customers in summer surges. *Page 141, Aug. 4.*

Many software suppliers are now recommending power-protection devices. *Page 145, Sept. 15.*

Power-protection awareness may be increasing, but education is still needed. *Page 145, Sept. 15.*

Power-protection devices are slimming down. *Page 89, Dec. 22/29.*

REVIEWS

Turn On Power Center/400—Dynatech Computer Power. *Page C/18, Aug. 11.*

Scanners

BUYERS' GUIDE

Software makes possible top scanner speeds. *Page 60, Feb. 3.*

Text scanners rise in popularity; price, office environment and type of application are factors to consider when buying. *Page 55, Feb. 3.*

Text scanners have become the "perfect partner" for desktop publishing. *Page 56, Feb. 3.*

(Continued on Page S/20)

1987 Index

(Continued from Page S/19)

Image scanners are good . . . but could be better. *Page 63, July 14.*

FOCUS ON

Design advances foster potential of scanner devices. *Page 93, March 17.*

Standardization seen as the key to achieving merger of image, optical character-recognition (OCR) scanning. *Page 93, March 17.*

User needs dictate choice of scanner style. *Page 94, March 17.*

Scanner market prognosis is for healthy growth. *Page 108, June 16.*

Primary advantage of page scanner is vast savings of time. *Page 109, June 16.*

Can copying with a scanner send uninformed users to the slammer? *Page 113, Sept. 8.*

Scanner technology is slowly finding market applications. *Page 113, Sept. 8.*

REVIEWS

LaserPlotter—Insight Development. *Page 123, April 21.*

SS-300 Graphics Scanner—Shape. *Page 123, April 21.*

HP ScanJet—Hewlett-Packard. *Page 71, June 30.*

MicroFax—Datacopy. *Page C/11, June 30.*

Definition Auto-Synch—Microvitec. *Page 86, July 7.*

The FX-RS505 Image Scanner—Panasonic Industrial Co. *Page 87, Sept. 1.*

Hanscan—Saba Technologies. *Page 88, Sept. 8.*

Security

FOCUS ON

Corporations wake up to data-security needs. *Page 113, March 31.*

Ease of use is key to maintaining a computer security system, experts say. *Page 114, March 31.*

Computer crimes proliferate under the cloak of corporate silence. *Page 82, June 16.*

Definitions of computer crime vary. *Page 82, June 16.*

Developers scramble to shut out hackers. *Page 109, July 21.*

System security not high priority for user, industry experts say. *Page 109, July 21.*

Variety of methods are best when plugging security holes. *Page 109, July 21.*

Federal agencies offer publications on many PC security measures. *Page 149, Sept. 15.*

Low-end security is popular for PC protection. *Page 149, Sept. 15.*

Hardware, software security devices protect PCs and inside information. *Page 136, Nov 17.*

No easy way through data-security maze, consultants say. *Page 136, Nov. 17.*

Insulated media safes protect diskettes from fire, heat and humidity. *Page 158, Dec. 1.*

Simplex's micro-based system acts as fire-protection device. *Page 159, Dec. 1.*

Don't take any chances: Every PC should have an extinguisher at hand. *Page 160, Dec. 1.*

REVIEWS

Bookmark—Intellisoft International. *Page 105, Nov. 24.*

Statistical/Analysis Software

BUYERS' GUIDE

Graphics capabilities offer many choices for business presentations. *Page 55, March 17.*

Graphics used in law office to win cases in court. *Page 57, March 17.*

The forecast looks bright for business-planning packages. *Page 53, June 30.*

Lifting statistical clouds from financial forecasting. *Page 71, Oct. 6.*

FOCUS ON

City of Boston uses software to expedite issuing building permits. *Page 119, Feb. 10.*

Statistics help in making business decisions. *Page 119, Feb. 10.*

Support offered to statistical software users. *Page 121, Feb. 10.*

PC-based tools enable executives to formulate strategy at their desks. *Page 125, April 7.*

Decision-support tools take many forms. *Page 126, April 7.*

Lack of presentation-quality output dogs statistical software. *Page 133, Aug. 4.*

Graphics package employs novel method to liven up statistical presentations. *Page 135, Aug. 4.*

Users of statistical programs wonder: At what price will they get graphics? *Page 140, Sept. 1.*

Users request ability to change the projections a forecast generates. *Page 142, Sept. 1.*

Software signals new era for market research. *Page 94, Dec. 22/29.*

REVIEWS

MVP Spreadsheet Plus—Bell Atlantic Network Systems. *Page 81, Feb. 24.*

pfs: Professional Plan version 1.0—Software Publishing. *Page 85, March 1.*

Plans N Totals—Resource N. *Page 69, March 17.*

Silk version 1.0—Daybreak Technologies. *Page 93, March 24.*

Predict—Unison Technology. *Page 85, March 31.*

Math Plan version 3.0—WordPerfect. *Page 99, April 7.*

Eureka version 1.0—Borland International. *Page 113, May 26.*

Javelin Plus—Javelin Software. *Page 81, July 14.*

RS/1 version 12.1—BBN Software. *Page 101, Aug. 4.*

TK Solver Plus—Universal Technical Software. *Page 85, Aug. 18.*

3270/SNA Hardware and Software

BUYERS' GUIDE

LAN gateway technology broadens PC capabilities, saves space and costs. *Page C/23, March 31.*

How much do customer demands influence vendors' design decisions? *Page C/13, Aug. 18.*

Xenix/Unix connects with IBM mainframe. *Page C/13, Aug. 18.*

LAN gateways allow larger numbers of PCs to share single controller. *Page C/17, Nov. 17.*

FOCUS ON

IBM 3270 emulator not a major improvement. *Page C/25, Feb. 3.*

LAN gateway users are facing tough future. *Page C/26. Feb. 3.*

An electronic meter-reading system keeps information flowing like water. *Page C/11, April 21.*

3270 emulation helps Campbell Soup keep food products and sales cooking. *Page C/14, April 21.*

3270 emulation lets airborne express soar in overnight-delivery market. *Page C/15, April 21.*

General Foods counts cost savings as benefit of software-only approach. *Page C/30, May 19.*

Software-only alternatives for 3270 emulation have price, portability pluses. *Page C/30, May 19.*

3270 net offers wider access to credit bureau. *Page C/34, May 19.*

General Foods improves host access recipe. *Page C/35, May 19.*

Telenet 3270 services provide USDA with "tremendous range." *Page C/13, July 7.*

Scientific supplier opts for a 3270 PDN service as alternative to private network. *Page C/14, July 7.*

DFT software provides multiple 3270 sessions, paves way for use of APPC. *Page C/31. Sept. 22.*

DFT lifts CUT limits, but conversion cost may be too high for some. *Page C/32, Sept. 22.*

IBM's LEN signals transition to distributed net. *Page C/33, Dec. 15.*

REVIEWS

IRMALAN SCLD Gateway—Digital Communications Associates. *Page C/28, Jan. 27.*

Autokey/3270—CDI Systems. *Page C/36, Feb. 10.*

Storage Media

FOCUS ON

Designer disks: Very Fashionable, but are they worth the dough? *Page 117, March 24.*

IBM's prescription for those suffering from the $5^1/_4$-to-$3^1/_2$-inch data-transfer headache. *Page 92, May 12.*

$3^1/_2$-inch media standard seen as beneficial to the portables market. *Page 91, May 12.*

PS/2's $3^1/_2$-inch drives may set new standard. *Page 92, May 12.*

$3^1/_2$-inch drive makers expect boost in sales because of PS/2 line. *Page 92, May 12.*

New advances in floppies help them shake their "poor relation" status. *Page 124, Sept. 29.*

Observers say future of data distribution lies in tape cartridges. *Page 124, Sept. 29.*

Training Software/Services

BUYERS' GUIDE

Software brings training in-house and eases frustration. *Page 55, June 16.*

Training choices depend on corporate need. *Page 55, June 16.*

Users look for quality training. *Page 71, Sept. 1.*

FOCUS ON

Insurance firm has custom-designed training program. *Page 116, March 3.*

Options vary for training PC users in branch offices. *Page 116, March 3.*

Phone support is valuable backup for firms in the wake of PC training. *Page 116, March 3.*

Training programs wrap learning in neat little packages. *Page 101, April 28.*

Interactive technology gives new meaning to "hands-on" training. *Page 102, April 28.*

PC training more than worth the time—if it's done right. *Page 82, July 28.*

Authoring programs offer training options. *Page 104, Aug. 25.*

REVIEWS

1987 Software Engineering Forum and 1986 Assembler Forum—Boston Computer Society. *Page 75, Aug. 11.*

LAN Administrator's Kit—American Training International. *Page C/11, Oct. 13.*

Utilities

FOCUS ON

Users continue to warm up to hot utility software market. *Page 73, Feb. 3.*

Users welcome utilities that enhance software—if the price is right. *Page 73, Feb. 3.*

Dragnet utility speeds information searches while under windows. *Page 98, March 17.*

Text-search programs aid in tracking files. *Page 98, March 17.*

Macro programs offer helpful customization. *Page 122, May 19.*

Macros programs speed variety of tasks. *Page 123, May 19.*

Does menu-utility software insulate users? *Page 105, June 23.*

OS/2 will free users from utility program. *Page 105, June 23.*

File-management utilities untangle operating systems, provide extra help. *Page 112, July 21.*

Suffering from format conversion? Try a document-conversion utility. *Page 118, Sept. 22.*

Will next Lotus 1-2-3 wipe out "Post-It" software packages? *Page 171 Nov. 10.*

Annotation methods vary widely among users. *Page 172, Nov. 10.*

"Post-It" software is extremely helpful for organizing large files. *Page 175, Nov. 10.*

REVIEWS

Maestro—Spectre Software. *Page 67, Feb. 3.*

Sum:Time version 2.3—Sunware. *Page 67, Feb. 3.*

Hot Line—General Information. *Page 87, Feb. 3.*

Idea Generator—Experience in Software. *Page 89, Feb. 17.*

Lotus Metro—Lotus Development. *Page 65, Feb. 24.*

Highways and Byways—New Directions Software. *Page 81, Feb. 24.*

Norton Utilities 4.0—Peter Norton Computing. *Page 81, March 31.*

Corefast version 1.20—Core International. *Page 95, April 14.*

HQ—TEK Microsystems. *Page 99, April 14.*

Intelligent Backup version 2.10—Software Laboratories. *Page 95, April 14.*

Sy-STOR—Sytron. *Page 124, April 21.*

WordPerfect's Library version 1.1—WordPerfect. *Page 113, May 26.*

PC-Fullbak—Westlake Data. *Page 71, June 16.*

ACT—Conductor Software. *Page 69, June 23.*

Spellbinder Desktop Publisher version 6.31—Lexisoft. *Page 71, Aug. 30*

Keyworks Advanced—Alpha Software. *Page 73, June 30.*

Keyworks 3.0—Alpha Software. *Page 73, June 30.*

DS Optimize—Design Software. *Page 83, July 14.*

Zoo Keeper—Polaris Software. *Page 88, July 14.*

MicroHelp Utility—MicroHelp. *Page 97, July 21.*

TravelTrak—TravelTrak. *Page 103, Aug. 4.*

Webster's Electronic Thesaurus version 1.0—Proximity Technology. *Page 103, Aug. 4.*

Lascaux 1000—Lascaux Graphics. *Page 105, Aug. 4.*

Programmer's Personal Planner (P3) version 1.0—Quantitative Software Management. *Page 73, Aug. 11.*

Duet—Consumers Software. *Page 83, Aug. 25.*

Headliner—The Salinon Group. *Page 108, Sept. 15.*

(Continued on Page S/22)

1987 Index

(Continued from Page S/20)

VP/Tabs, VP/Fonts, VP/Saddle—The Laser Edge. *Page 128, Nov. 10.*
HiJaak—Inset Systems. *Page 113, Nov. 17.*
Smartnotes 2.0—Personics. *Page 106, Nov. 24.*
Wintime—Palantir Software. *Page 109, Nov. 24.*
RSVP—Blue Lion Software. *Page 109, Dec. 1.*
ABC Word—Automated Language Processing System. *Page 120, Dec. 8.*
Prodex—Prodex Development Co. *Page 124, Dec. 8.*
An Electronic Holmes Companion—PsyLogic Systems. *Page 78, Dec. 15.*
Gunship, The Attack Helicopter Simulation—Microprose. *Page 80, Dec. 15.*
Marble Madness—Electronic Arts. *Page 83, Dec. 15.*
Cheetah-MIDI Music System and Opus Music Software—Cheetah International. *Page 82, Dec. 15.*
Tree86—The Aldridge Co. *Page 73, Dec. 22/29.*
Xtree Pro—Executive Systems. *Page 73, Dec. 22/29.*

Vertical-Market Applications

FOCUS ON
Medical branches have very specific software needs. *Page 121, Jan. 13.*
M.D. prognosis: Automated patient records. *Page 121, Jan. 13.*
Multiple-fund transfer software can be used as stand-alone module. *Page 123, Feb. 10.*
Security is becoming a central issue as banks convert to micro networks. *Page 123, Feb. 10.*
Loved or scorned, expert systems will have major impact. *Page 87, March 17.*
Colleges search for campuswide connectivity solutions. *Page 140, April 14.*
Tempest the watchword for federal security. *Page 97, May 12.*
Insurers gamble on free-software scheme. *Page 131, June 9.*
Insurance software makers push to widen their products' scope. *Page 135, June 9.*
Database for doctors helps cure office ills. *Page 17, July 7.*
Health-care software takes care of records, helps staff plan ahead. *Page 117, July 7.*
Mortgage banking association aims for standard communications methods. *Page 111, Aug. 11.*
Mortgage bankers look to micro consultants for their PC solution. *Page 111, Aug. 11.*
Generic integrated software suits some users. *Page 115, Sept. 8.*
Many manufacturers are moving to micros for planning, management. *Page 115, Sept. 8.*
Micros help universities streamline the costs of applications development. *Page 174, Oct. 13.*
Software helps a school track its endowments. *Page 174, Oct. 13.*
Management software still lacks votes on campaign trail. *Page 165, Nov. 10.*
Campaign software: flexibility comes first. *Page 168, Nov. 10.*
Lap-tops keep insurance agents on the go in fast-paced field. *Page 167, Dec. 8.*

REVIEWS
Business Traveldata—American Database. *Page 75. Aug. 11.*

Voice Synthesis/Processing

FOCUS ON
Graphic interfaces of OS/2 could be a step in the wrong direction. *Page 100, June 30.*
Voice synthesis expands chances for the blind. *Page 100, June 30.*
Talking computers aren't ready for the office. *Page 181, Oct. 27.*

REVIEWS
CAM (The Complete Answering Machine)—The Complete PC. *Page 115, Dec. 8.*
The Complete Answering Machine—The Complete PC. *Page C/15, Oct. 6.*

Voice/Data Systems

FOCUS ON
Big marketing dreams give way to a more modest reality. *Page C/23, March 10.*
Integrated systems help keep hotel guests honest. *Page C/23, March 10.*
PC/Phone workstation eases point-to-point data communications. *Page C/24, March 10.*
AI-based speech system assists Texas Instruments' LAN diagnostics. *Page C/24, May 26.*
Voice/data products are finding a stronger role in the corporate arena. *Page C/30, June 23.*
Corporate voice mail is seen as changing business. *Page C/34, Aug. 11.*
Voice/data integration: The options are increasing for user applications. *Page C/20, Sept 29.*
The integrated desk: Do users need it, do they want it? *Page C/47, Nov. 17.*

Wide Area Connectivity

FOCUS ON
NASA turns to LANs, satellite links to access its powerful supercomputers. *Page C/13, March 31.*
TransLAN units tie NASA Ethernet systems to number-crunching network. *Page C/14, March 31.*
Simplicity is the main benefit of a single-vendor network. *Page C/30, July 21.*
Know the option of packet switching to maximize performance, cut costs. *Page C/18, Sept. 29.*

Word Processing

BUYERS' GUIDE
Mail-merge helps integrate database lists, form letters. *Page 65, Feb. 24.*
Word processing moves into communications. *Page 67, Feb. 24*
How buyers evaluate multilingual packages. *Page 61, Aug. 18.*
Programs must be multicultural to work effectively. *Page 61, Aug. 18.*
Macros can give infinite choices, power users say. *Page 69, Nov. 17.*
Macros offer solution to word-processing drudgery. *Page 69, Nov. 17.*

FOCUS ON
Document-conversion techniques all have varied costs, drawbacks. *Page 89, Jan. 20.*
Text conversion allows different systems to share some documents. *Page 89, Jan. 20.*
Conversion between dissimilar programs could pose problems. *Page 90, Jan. 20.*
Tips for translating documents between old and new systems. *Page 91, Jan. 20.*
Cost factors important in retaining dedicated systems, connecting PCs. *Page 92, Jan. 20.*
Vendors cash in on need for connectivity. *Page 92, Jan. 20.*
Developers follow varied paths to achieve text/graphics merge abilities. *Page 88, March 17.*
Jack2 returns from its market hiatus, resumes reign as integrated great. *Page 88, March 17.*
Simple programs offer integration alternatives. *Page 90, March 17.*
Examining the value of electronic writing aids. *Page 121, May 26.*
Three style checkers are put through their paces. *Page 126, May 26.*
Special programs take the drudgery out of writing and editing. *Page 127, May 26.*
Flesch formula gauges the readability quotient of a given piece of writing. *Page 129, May 26.*
Word-processing software adds desktop-publishing functions to its usual role. *Page 130, May 26.*
Packages cater to all phases of the writing process. *Page 131, May 26.*
Vendors, corporations increasingly see benefits of multilingual software. *Page 91, June 30.*
Typing umlauts, accents onto the screen doesn't mean they'll be printed. *Page 94, June 30.*
U.S. word-processing vendors court foreigners with multilingual offerings. *Page 94, June 30.*
New products add word-processing features to 1-2-3. *Page 105, July 14.*
Stand-alone or add-in word processors? Different products satisfy different needs. *Page 105, July 14.*
Color capability: Is it easier to use, or is it just another pretty screen? *Page 105, Sept. 22.*
Color may be ideal to train novice users. *Page 109, Sept. 22.*
Good contrast plus comfort can help in reducing eye strain. *Page 110, Sept. 22.*
Developers stress service, support in effort to tip the scales in their favor. *Page 144, Oct. 20.*
Hot lines buzzing with questions on printers. *Page 150, Oct. 20.*
WordPerfect books it to battle MicroPro. *Page 151, Oct. 20.*
Private support firms thrive with wide-ranging services. *Page 154, Oct. 20.*
Features, ease of use top list of word-processing professionals' demands. *Page 85, Dec. 22/29.*
Users caught in love-hate relationship with major word-processing packages. *Page 85, Dec. 22/29.*
Manuscript-preparation services take hands-on approach to word-processing. *Page 88, Dec. 22/29.*
Storing manuscripts on disks makes revisions simpler and saves time. *Page 88, Dec. 22/29.*

REVIEWS
Lotus Manuscript—Lotus Development. *Page 89, Feb. 10.*
Wordstar 4.0—MicroPro International. *Page 78, March 10.*
Write-In—Blossom Software. *Page 87, May 5.*
WordPerfect Executive—WordPerfect. *Page 85, June 23.*
XyWrite III Plus—XyQuest. *Page 77, July 7.*
CompareRite—Jurisoft. *Page 84, Aug. 11.*
Q&A Write—Symantec. *Page 87, Sept. 22.*
Microsoft Word 4.0—Microsoft. *Page 95, Oct. 20.*
KeyNotes Writer's Handbook—Digital Learning Systems. *Page 97, Oct. 20.*
WordStar 2000 Plus, Release 3—MicroPro International. *Page 115, Dec. 8.*

CONNECTIVITY

AGB Television Research
Communications Strategies Fuel Television Ratings Battle. *Page C/1, July 28.*
Airborne Express
3270 Emulation Lets Airborne Express Soar in Overnight-Delivery Market. *Page C/15, April 21.*
Arco Oil and Gas
LAN Databases Help Bolster Gas-Marketing Efforts at Arco. *Page C/1, August 4.*
Avis
Avis's Communications Links Help Company Reach More Customers. *Page C/8, Dec. 3.*
Avis's Use of Advanced Technology Helps Keep Firm in the Fast Lane. *Page C/42, Dec. 3.*

Bank of Boston
Direct Customer Link Reduces Workload, Speeds Transactions. *Page C/9. Aug. 18.*
Bankers Trust
T-1 Network Helps Bankers Trust Enhance, Preserve Profits. *Page C/32, Jan. 13.*
Battelle Memorial Institute
Networks, PCs and Emulation Remedy Ills of Connectivity. *Page C/12, Jan. 27.*
Baxter Travenol
Medical Supply Firm Will Use Token-Ring To Draw Customers. *Page C/12, Jan. 13.*
Bloomingdale's
Bloomingdale's Finds That Protocol Converter Is Just the Right Style. *Page C/7, June 16.*
Blue Cross/Blue Shield of Maryland
On-Line Claims Help Maryland Blue Cross Battle Competition. *Page C/1, June 2.*

California Dept. of Forestry and Fire Protection
California Dispatch System Undergoes First Trial by Fire. *Page C/1, Sept. 15.*
Satellite Tracker Keeps Eye Out for Lightning Storms. *Page C/4, Sept. 15.*
California Water Service
An Electronic Meter-Reading System Keeps Information Flowing Like Water. *Page C/11, April 21.*
Campbell Soup
3278 Emulation Helps Campbell Soup Keep Food Products and Sales Cooking. *Page C/14, April 21.*
Canadian Pacific Air Lines
CP Air Used Davong LAN To Help Travel Agency Reservations Take Off. *Page C/12, Feb. 10.*
Chase Manhattan Bank
Chase Banks On-Line Info System To Attract Pension-Trust Customers. *Page C/8, June 9.*
Chemical Bank
Emulation Cards Used To Tie Stock Traders' PCs to Data in Bank Minis. *Page C/15, Jan. 27*
Children's Hospital of San Francisco Medical Records Dept.
Laser-Linked Network Avoids Use of Forms. *Page C/28, April 28.*
Chicago Transit Authority
CTA's Choice Took Years of Research. *Page C/6, Feb. 24.*
Chicago Tribune
IBM and Rolm Wire Up the Tribune. *Page C/4, Feb. 10.*
Cigna
Insurer Links Host to Field Agents. *Page C/4, May 26.*
Clyde Savings and Loan
Small S&L Looks to LANs To Enhance Customer Service. *Page C/1, Oct. 13.*
Colonial Group
Firm Profits from PC-VAX Bond. *Page C/8, July 28.*
Congressional Office of Technology As-

(Continued on Page S/23)

1987 Index

(Continued from Page S/22)

C/8, July 28.
Congressional Office of Technology Assessment
'Congress's Think Tank' Links PCs, Word Processors via LAN. *Page C/1, April 14.*
Conoco
PC Emulation Scheme Bridges Gaps Between E-Mail Systems. *Page C/16, Jan. 27.*
Oil Firm Strikes on LAN Solution. *Page C/1, Feb. 3.*
Continental Insurance Group
Expert Center Gets Off To a Slow Start. *Page C/8, July 21.*
Insurance Firm Looks to New LAN to Polish Its Dusty Image. *Page C/8, July 21.*
"Strategic Underwriter Network" Hooks Field Agents Up with Home Office Hotshots. *Page C/8, July 21.*
Corporation for Open Systems
Practicing What It Preaches Is Aim of Standards Group's LAN. *Page C/7, June 16.*

Deere & Co.
E-Mail Network Lifts Fortunes of Farm-Equipment Maker. *Page C/1, Aug. 18.*
Del Monte
Test LAN Wows Del Monte Brass. *Page C/1, Sept. 22.*
Two Tries Needed To Develop LAN; Planner Promoted. *Page C/4, Sept. 22.*
Delian
ITT PBX Helps Cut Costs, Expands PC Modem-Sharing. *Page C/12, May 12.*
Dow Corning
Radio Link Helps Dow Corning Cut Materials-Handling Delays. *Page C/1, Dec. 3.*

E.F. Hutton & Co.
StarLAN Chosen To Link Hutton Branches. *Page C/24, May 12.*
E.I. du Pont de Nemours & Co.
Du Pont Bridging E-Mail Systems for Better Connectivity. *Page C/4, March 3.*
Weapons Firm Adds LAN to Arsenal. *Page C/8, Aug. 25.*

Fidelity Investments
Fidelity Invests in Integrated Asynch, SNA, X.25. *Page C/33, June 9.*
Fireman's Fund Insurance Companies
Bridging the Gap Between IBM's Two Office Systems. *Page C/1, Aug. 11.*
First Bank System
Twin-City PC LAN Linked by One Mainframe. *Page C/24, Feb. 17.*
Florists' Transworld Delivery
Connectivity Helps Deliver the Mother's Day Bouquet for FTD. *Page C/5, May 5.*

Gallaudet Univ.
LAN Helps Deaf Sharpen Writing. *Page C/4, July 7.*
Gannet
Giant Gannet Publishing Continues To Make Headlines with Connectivity. *Page C/34, March 24.*
Graphics Network Helps Newspapers Uphold an Image. *Page C/35, March 24.*
General Electric's Armaments Services Div.
GE Brings PCs, Macs into DECnet. *Page C/9, July 21.*
General Foods' Central Engineering Div.
General Foods Counts Cost Savings, as Benefit of Software-Only Approach. *Page C/30, May 19.*
General Re
Insurer's Tracking Database Doubles as Link to Customers. *Page C/1, Oct. 20.*
George Weston Ltd.
PCs, LAN System Foster Autonomy at George Weston. *Page C/1, June 9.*
Unique LAN Meets Firm's Needs. *Page C/7, June 9.*
Gould
Firm Links 500 Users to Five Supermini Systems. *Page C/31, Jan. 20.*
GoldKist
Farm Co-op Tracks Sales Via PCs, System/36s. *Page C/18, May 26.*
Graymour Chemical
Multiuser Systems Aid Manufacturing. *Page C/46, June 16.*
Great Waters of France
Perrier Dials the Curacao Connection. *Page C/1, Jan. 20.*
GRI
LAN, PCs Ease Accounting Process, Cut Costs for Marketing Company. *Page C/12, July 28.*

H & R Phillips
Firm Crafts Desktop LAN/Mini Link. *Page C/11, May 12.*
Harris County, Texas
Texas Lawyers Eliminate Paper Chase With Pilot Document-Retrieval System. *Page C/17, April 7.*
HealthCare Compare
Medical Firm's Explosive Growth Pushes Limits of LAN Technology. *Page C/1, Sept. 8.*
Hilton Hotels
Hilton Checks Out PCs as Connectivity Solution. *Page C/44, Jan. 20.*
Hitachi America
Cable Woes, Lack of Support, Cripple Network Use at Hitachi. *Page C/1, May 19.*
Home Federal Savings of San Diego
Bank's LAN Links Regional Loan Centers. *Page C/9, July 28.*
Howe News Bureau of Boston
Minor Leagues Connect with a Database Hit. *Page C/7, March 31.*
Houston Independent School District
School District Teaches Effective Networking. *Page C/23. March 3.*
Hughes Aircraft
Hughes' Electro-Optical & Data Systems Has the Right Fiber. *Page C/7, Feb. 17.*
Hughes Radar Systems Group
DEC Terminals Get PC Functions. *Page C/1, April 7.*
Hyundai Motor America
Sophisticated Data Network Accelerates Hyundai Success. *Page C/1, Aug. 11.*
Hyundai Plans To Link ATs Via Home-office Token-Ring. *Page C/4, Aug. 11.*
Large Dealer Network Is Another Factor in Hyundai Success Story. *Page C/36, Aug. 11.*

Indianapolis Yellow Cab
Mobile Terminals Prompt Speedy Cab Service. *Page C/6, April 14.*
Inland Steel
Inland Steel Is Revitalized Via Automation. *Page C/1, April 7.*
Iowa State Univ.
Iowa State Launching Campuswide Network. *Page C/14, Feb. 3.*

J.C. Penney
J.C. Penney To Establish TV, Phone Shop-at-Home Service. *Page C/1, Sept. 1.*
J. W. O'Conner & Co.
O'Connor & Co. Bring Mini In-House. *Page C/6, Sept. 1.*
John Hancock Property and Casualty Insurance
PC Link Keeps Insurer Accountable. *Page C/10, June 9.*

K mart
A Study in Competition: K mart and Woolworth Look at VSAT Dishes. *Page C/34, August 25.*
Kings Island Amusement Park
Network Connects Amusement Park Guests. *Page C/23, March 3.*
Knight-Ridder
Knight-Ridder Profits from PC-Based News Graphics Service. *Page C/11, May 12.*
Konica Business Machines USA
Konica's New Service Center Breaks Information Logjam. *Page C/1, Sept. 29.*

Lehman College
Lehman College Network Helps Sudents, Faculty Share Software and Cut Down on Security Problems. *Page C/40, April 28.*
Les Schwab Tire Centers
Tire Chain Linked Via System/3X. *Page C/6, Aug. 18.*
Levi Strauss & Co.
Flexibility Key to Levi's Computing. *Page C/3, March 31.*
Levi Has Clear-Cut Plan for Communication Network. *Page C/4, March 31.*
US Apparel Firms Choose EDI To Gain a Competitive Edge: Levi Strauss To Cut Marketing, Production Costs. *Page C/1, Aug. 18.*
Lockheed Missiles and Space
Users at Lockheed Want More from High-Speed Modems than High Speed. *Page C/18, Feb. 17.*
Lucky Stores
Supermarket Offers Retailers ATM Funds Network Services. *Page C/9, Oct. 27.*

Magna International
Connectivity Ranks as Main Goal of Decentralized Firm. *Page C/1, Feb. 24.*
Major League Baseball
Networking the National Pastime. *Page C/1, March 31.*
Massachusetts Executive Office of Transportation and Construction
State Agency LAN Thrives Without a Network Manager. *Page C/1, July 14.*
Massachusetts Institute of Technology
New MIT Phone System Will Be Among First To Use ISDN Voice/Data Interface Standard. *Page C/12, July 21.*
McDonnell Douglas Astronautics
Firm Hooks PCs into Ethernet-VAX System. *Page C/15, June 26.*
McKesson Corp.
For McKesson, the Prescription Is a Gateway. *Page C/14, Feb. 17.*
Merrill Lynch
A Global Network Deals Bullish Broker Profitable Percentage. *Page C/1, June 23.*
Merrill Lynch Suits Links to a T-1. *Page C/8, June 23.*

Navajo Indian Nation
Navajo Indian Nation Works Toward Tribal Connectivity. *Page C/1, Jan. 27.*

Orange County (Calif.) Superior Court
Management Woes High on County Court's Docket. *Page C/1, June 16.*

Pacific Stock Exchange
Stock-In-Trade LANs/Securities Sales Trusted to Network. *Page C/10, March 10.*
Photon Entertainment
Simulation Game's Networks Score High Company Profits. *Page C/3, March 10.*
Pan American Airline Pilots' Assoc.
Computer Conferencing Links Far-Flung Pan Am Pilot Union. *Page C/1, July 21.*
Pig Improvement
Pig-Genetics Firm Sees Printer-Share Answer In Fourth Switch Try. *Page C/25, Jan. 27.*
Policy Management Systems
PC LAN Connects 900 Offices in Nationwide Telecom Network; *Page C/1, March 17.*
PPG Industries
Link to GM's EFT Net Speeds Payment Processing at PPG. *Page C/1, Oct. 6.*
Public Affairs Resource Group
Coping With a Computer Patchwork. *Page C/3, Jan. 13.*

Queen Mary/Spruce Goose
LANs Have Wound Their Way to Queenly Amusement Park. *Page C/5, May 26.*

Ranco Controls
Components Maker Plots Customized Alternative to MAP. *Page C/4, July 21.*
Raychem
Raychem: Global Needs, Home-Grown Answers. *Page C/40, Feb. 10.*
Roman Catholic Church
LAN Database Helps Cut Costs of Fund-Raising. *Page C/19, March 24.*
Local Area Network Helps Aviod the Papal-less Archdiocese. *Page C/5, July 14.*

S. Levy
Firm Uses LANs To Move into Database Support. *Page C/18, Feb. 17.*
San Antonio, City of
A Tale of One City, Two Strategies. *Page C/1, Feb. 24.*
AT&T's ISN Gives San Antonio Wide Variety of Links. *Page C/13, Feb. 24.*
City's Success May Help Boost Unix Popularity. *Page C/23, Feb. 24.*
Sara Lee
Sara Lee Is Expecting Twisted-Pair Wire to Be a Cost-Effective Ingredient in Its Network. *Page C/7, May 19.*
Sara Lee Stresses Simple Connection Among 40 Divisions. *Page C/1, June 9.*
Security Pacific Merchant Bank
LAN Provides Loan Officers with Quick Access to Mainframe Data. *Page C/1, July 14.*
Backup Role for Networks: Dependable and Consistent. *Page C/8, July 28.*
Southern California Edison
PCs Power Nuclear Plant Networks. *Page C/1, Feb. 17.*
Sparks Regional Medical Center
PC Links Help Medical Center Cure Data Flow. *Page C/8, March 17.*
Statistics Canada
Canadian Agency Keeps Data Safe by Keeping it Separate. *Page C/1, Feb. 10.*
Statistics Canada Trusts Vital Data to Public Network. *Page C/6, Feb. 10.*

Tanner Southwest
Tanner PC System To Have Standardized Hardware, Software. *Page C/11, January 13.*
Taylor Publishing Inc.
Publisher Installs DECnet, PCs to Replace Central Mini. *Page C/8, July 28.*
Tesoro Petroleum
Oil Firm Weathers Tough Times With Less-Is-More Billing Setup. *Page C/1, May 26.*
Texaco
AI System Cuts Plant's Owner Costs. *Page*

(Continued on Page S/30)

1987 Index

(Continued from Page S/23)

C/10, July 4.
Texas Dept. of Human Services
Human Services Dept. Taps NET as "Bureaucracy Buster." *Page C/1, Oct. 27.*
Texas Dept. of Public Safety
Texas Local Area Network Gives Drivers One for the Road. *Page C/5, Oct. 13.*
Traveler's Insurance of Hartford
IBM Changes Customer's 3270 Link. *Page C/9, June 16.*
Tri-Star Pictures
At Tri-Star, PC Nets Play Leading Role in Project Tracking. *Page C/7, April 21.*
TRW
Firm Has Parts for Global Network. *Page C/5, Feb. 3.*
3270 Net Offers Wider Access to Credit Bureau. *Page C/34, March 19.*
International Links Complicate LAN Building. *Page C/23, March 24.*

United Dairy Farmers of Ohio
Dairy Milks the Benefits of PC Connectivity. *Page C/6, April 7.*
Univ. of California at Los Angeles
UCLA's Decentralized System a Model of Network Efficiency. *Page C/1, June 2.*
Univ. of Georgia's Public Safety Div.
University Police Capture Data in Their Multiuser System. *Page C/4, July 28.*
U.S. Air
LANs and PC-to-Mainframe Links Keep Airline Flying High. *Page C/1, March 24.*
U.S. Bureau of Labor Statistics
Network Behind Improved CPI. *Page C/4, Feb. 3.*
Federal Agency Speeds Purchasing with LANs, E-Mail. *Page C/6, April 7.*
U.S. Center for World Mission
Global Missionary Efforts To Be Expanded by Computers. *Page C/10, March 10.*
U.S. Dept. of Agriculture
Forest Service Explores Satellite Link. *Page C/3, March 10.*
USDA Leases Data Network From Telenet. *Page C/3, March 10.*
U.S. Dept. of Defense
Defense Department Tests EDI System. *Page C/8, June 14.*
U.S. Federal Aviation Administration
The FAA Goes On-Line To Monitor the (User-) Friendly Skies. *C/5, June 2.*
U.S. National Aeronautics and Space Administration
NASA Turns to LANs, Satellite Links To Access Its Powerful Supercomputers. *Page C/13, March 31.*
U.S. National Park Service
The National Park Service Builds an Electronic-Mail System on BBS Software. *Page C/22, Sept. 29.*
U.S. National Security Agency
Moscow Spy Scandal Brings to Light Connectivity's Secret Side. *Page C/5, April 28.*

Visa International
Visa Converts Interbank Links into New Business Opportunities. *Page C/1, October 6.*
Visa Turns to PCs as a Cog for VisaNet Implementations. *Page C/4, Oct. 6.*
VWR
Public Network SNA Links Cut Costs for Order-Entry System. *Page C/1, July 7.*

Wells Fargo Commercial Banking Group
LAN, Host Links Boost Bank's Productivity, Marketing Efforts. *Page C/1, July 7.*
Wisconsin Department of Justice
Wisconsin Justice Department Puts Out APB on Fast Data Link. *Page C/7, March 17.*
Woolworth
A Study in Competition: K mart and Woolworth Look at VSAT Dishes. *Page C/34, July 25.*
Wright Schuchart
Wright Schuchart Builds on System/38. *Page C/6, July 14.*

Youngstown University
University Goes Against Book for Net Needs. *Page C/4, April 21.*

FEATURES

Allied Van Lines
PCs Ease Allied Van Lines' Move into Newly Competitive Environment. *Page 45, July 21.*
It's Not Easy To Lure Far-Flung Agents onto Same PC Bandwagon. *Page 53, July 21.*
American Express Consulting Services
American Express Uses Lap-Tops To Market Travel-Consulting Service. *Page 53, April 14.*

Bankers Trust
Lap-Tops Take the Grand Tour and Bring New Business Home. *Page 53, March 24.*
Boston Stock Exchange
The Boston Stock Exchange Trades Up to Micros and Gains a Competitive Edge. *Page 37, March 10.*

Cair Systems
A PC System Helps Insurance-Ratings Firm Redefine Its Information Strategy. *Page 47, Feb. 10.*
Clean Harbors
Clean Harbors Relies on PC Database for System To Track Toxic Materials. *Page 49, Aug. 18.*
CRS Sirrine
PCs Engineer Winning Projects at Construction-Services Firm. *Page 47, Feb. 3.*

Del Monte
At Del Monte, MIS Staffers Enroll in PC Training. *Page 51, May 26.*
Dolby Labs
At Dolby Labs, PCs, Mini, Phones Work in Concert. *Page 43, Jan. 27.*
Dominick's Finer Foods
Grocery Chain Adopts Major PC Policy in an Effort To Become Chicago's Finest. *Page 55, Jan. 6.*
Coupon System Is Used as a Marketing Tool on Grocer's PC AT System. *Page 68, Jan. 6.*
Domino's Pizza
Personal Computers Help Deliver on Productivity Promise. *Page 39, Feb. 17.*
PCs Help Keep Pizza Couriers Safe on Their Rounds. *Page 49, Feb. 17.*

E.I. du Pont de Nemours
At du Pont, Expert Systems Are Key to AI Implementation. *Page 35, Jan. 13.*

Florsheim Shoe
Customers Go Shopping at a PC. *Page 57, Oct. 20.*
Ford Motor
PCs Put a High-Tech Touch on an Ancient Process. *Page 35, May 12.*
Raising Computer Literacy at Ford. *Page 40, May 12.*
Fordham Univ.
Fordham: University Gains a Technological Edge. *Page 49, Aug. 11.*
Forest Products Lab
Forest Products Lab: Micros Find a Role in a Mini World. *Page 41, March 17.*
PC IS Critical to Data Collection At Forestry Lab. *Page 46, March 17.*

General Electric
GE Gets It All Together with PC-Coordinator Support Program. *Page 67, April 7.*
Technical Minds: New Ideas. *Page 85, Nov. 3.*
Grecon Manufacturing
CAD System Makes a Profit. *Page 51, Feb. 24.*

Jockey International
Jockey's PCs Point Firm's Ad Dollars at Target Customers. *Page 73, Nov. 3.*
Advertising Account Tracking In-House. *Page 73, Nov. 3.*

Kawasaki Motors
Amid the Roar of Competition, Kawasaki Opts for Lap-Top PCs. *Page 55, Oct. 20.*
PC Network Lets the Good Times Roll for Savvy Dealers. *Page 55, Oct. 20.*
Kelly Services
At Kelly Services, Word-Processing Temps Are PC Pros. *Page 53, March 24.*

Lincoln National Insurance
Public E-Mail: A Better Way of Getting Work Done. *Page 57, June 23.*
Los Angeles Police Dept.
Beyond "Just the Facts, Ma'am." *Page 55, Jan. 20.*

Merrill Lynch's Investment-Banking Division
Investment Bankers Are Finding PCs Invaluable for Fast-Lane Deal Making. *Page 51, May 19.*
MONY Financial Services
Custom Software on Lap-Tops Helps MONY Agents Win Customers. *Page 43, July 7.*

Otis Elevator
OtisLine Gets Elevator Passengers Out of a Jam, Keeps Customers Happy. *Page 45, March 31.*
How Otis Elevator Co. Keeps Moving to the Top. *Page 45, March 31.*

Pacific Gas & Electric
Pilot PC Project at PG&E Improves Customer Service, Delivers Information on Time. *Page 61, Aug. 4.*
Pfizer
In-House Sevices Delivers Quality Graphics for Less Cost. *Page 33, July 28.*
At Pfizer, PCs Help Turn Data into Dollars. *Page 33, July 28.*
Pillsbury
Taking the Easy Way Out. *Page 61, Oct. 27.*
Food Firms Turn To Touch Screen Training. *Page 61, Oct. 27.*
Polo Ralph Lauren
It Runs on a PC but a Macintosh Suits the Image. *Page 57, Oct. 6.*
A New Photo Technology for an Old-World Image. *Page 57, Oct. 6.*
Pratt & Whitney
At Pratt & Whitney, Interactive Video Exercises Quality Control. *Page 43, June 16.*

Sanders Associates
At Sanders, Engineers Climb the Career Ladder. *Page 51, April 21.*
Seafirst Bank
Seafirst Moves Up to the Mac. *Page 53, Aug. 25.*
Shearson Lehman Brothers
Keeping Equipment Ticking in High-Stakes Trading. *Page 49, June 23.*

Tonka Toys
At Tonka Toys, PCs Lay the Groundwork in R&D. *Page 53, June 9.*
Toro
For Market-Driven Toro Co., PCs are Primary Productivity Tool. *Page 59, Aug. 4.*
Travelers
Desktop Video Ensures a Good Show. *Page 45, Sept. 22.*
PC Show Lures Lecture Audiences. *Page 45, Sept. 22.*
Tri-Star Pictures
Tri-Star Pictures: PC Is Shining New Star Backstage in Hollywood. *Page 80, Nov. 3.*

Union Carbide
It's Users' Choice: PCs or Macs. *Page 71, Oct. 13.*
Firm Saves Money, Boosts Productivity With Mac Network. *Page 71, Oct. 13.*
U.S. Federal Govt.
Federal Micro Managers Have Computing Edge Over Civilians. *Page 49, May 5.*
U.S. Navy Technical-Support Activity
The Changing Workplace: Desktop Publishing Makes Waves in the Navy. *Page 47, May 5.*
USA Today
At USA Today, the PC Makes Front-Page News. *Page 67, June 2.*
For a Managing Editor, the Day Doesn't Stop 'till the Page is Perfect. *Page 67, June 2.*
Ad-Layout Program Helps Save Time, Money and Paper Waste at USA Today. *Page 82, June 2.*

Wisconsin
State of Wisconsin Draws Up Novel Strategy For 'Explosion' in Use of Lap-Top PCs. *Page 51, June 23.*

Xerox
At Xerox, Technology Mirrors Management Styles. *Page 37, June 30.*

ADVERTISERS INDEX

Company	Page
AST Research	32
ATI	31
Datavue	18
Intel	16-7
Isicad	9
Multi-tech Systems	2
NEC Information	7
Palantir	4
PC Contents	13
PC Designs	21
Plus Development	10
Sytron Corp.	5
Toshiba America	15